# INDEX BY SECTOR

## 1. SCREEDS AND SMOOTHING COMPOUNDS
- 1.1 Screeds
- 1.2 Traditional screeds
- 1.3 Smoothing compounds
- 1.4 Products for levelling substrates

## 2. PRODUCTS FOR SOUNDPROOFING

## 3. PRIMERS, BONDING PROMOTERS, CONSOLIDATING AND WATERPROOFING PRODUCTS

## 4. ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL
- 4.1 Hydraulic binder based adhesives
- 4.2 Synthetic resin-based adhesives
- 4.3 Reactive adhesives

## 5. GROUTS FOR CERAMIC TILES
- 5.1 Cementitious grouts
- 5.2 Epoxy grouts
- 5.3 Ready-to-use paste products

## 6. SYSTEMS FOR LAYING AND GROUTING ARCHITECTURAL STONE PAVING

## 7. ELASTIC SEALANTS AND ADHESIVES
- 7.1 Acetic silicone sealants
- 7.2 Polyurethane sealants and adhesives
- 7.3 Neutral silicone sealants
- 7.4 Hybrid sealants and adhesives
- 7.5 Other sealants
- 7.6 Adhesives for PVC
- 7.7 Accessories and primers for sealants
- 7.8 Polyurethane foams
- 7.9 Accessories for foams

## 8. ADHESIVES AND FINISHING PRODUCTS FOR WOODEN FLOORS
- 8.1 Adhesives for wooden and laminate floors
- 8.2 Paints, stuccos, oils, base coats and coloured sealants for parquet

## 9. ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS
- 9.1 Adhesives in water dispersion
- 9.2 Ancillary products for LVT
- 9.3 Reactive adhesives
- 9.4 Polychloroprene and elastomeric contact adhesives
- 9.5 Powder adhesives
- 9.6 Cementitious adhesives
- 9.7 Adhesive strips
- 9.8 Adhesives for synthetic grass

## 10. COMPLEMENTARY PRODUCTS FOR LAYING CERAMIC TILES, STONE MATERIAL, PARQUET, RESILIENT AND TEXTILE COVERINGS
- 10.1 Complementary products for laying ceramic tiles and stone material
- 10.2 Complementary products for laying resilient and textile coverings
- 10.3 Accessories, abrasive disks and products for the maintenance of parquet

## 11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS
- 11.1 Resin based products
- 11.2 Cementitious based products
- 11.3 Complementary products for resin and cementitious floors

## 12. PRODUCTS FOR REPAIRING ASPHALT AND HIGHWAY MAINTENANCE
13. PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS

13.1 Consolidating various types of weak and crumbly substrates (porous stone, brickwork, tuff, installation mortar, render, etc.) by impregnating

13.2 Reconditioning and consolidating masonry with free-flowing mortar

13.3 Consolidating masonry and render by injecting slurry

13.4 Horizontal chemical barriers against capillary rising damp

13.5 De-humidifying masonry with binders and mortars for render

13.6 Lime based breathable renders

13.7 Structural even “reinforced” renders

13.8 Skimming of de-humidifying breathable and structural mortars

13.9 Brick, stone, tuff and mixed masonries

13.10 Waterproofing and protecting construction features

14. REPAIRING, CONSOLIDATING AND STRENGTHENING WOODEN STRUCTURES

15. ADHESIVES AND SMOOTHING COMPOUNDS FOR CELLULAR CONCRETE BLOCKS

16. PRODUCTS FOR THE RESTORATION OF CONCRETE

16.1 Protection of steel reinforcement rods

16.2 Repairs to concrete with compensated-shrinkage mortar and binders

17. WATER-REPELLENT PRODUCTS FOR THE PROTECTION OF CONCRETE

18. RENDERING AND INSTALLATION MORTARS

19. SMOOTHING AND PROTECTIVE PRODUCTS FOR CONCRETE AND RENDER SURFACES

20. PRODUCTS FOR ANCHORING AND RAPID FIXING

21. PRODUCTS FOR STRUCTURAL BONDING, SCREED REPAIRING AND INJECTING INTO CRACKED CONCRETE

22. PRODUCTS FOR GALVANIC CATHODIC PROTECTION

23. COMPOSITE SYSTEMS FOR STRUCTURAL STRENGTHENING

24. PRODUCTS FOR THERMAL INSULATION

25. PRODUCTS FOR TREATING ASBESTOS CEMENT SLABS

26. WALL PROTECTIVE AND DECORATIVE COATINGS

27. WATERPROOFING SYSTEMS

27.1 Waterproofing structures below ground level

27.2 Waterproofing structures above ground level

27.3 Sealing and waterproofing joints and fillets

28. ADMIXTURES FOR CONCRETE

28.1 Admixtures for concrete

28.2 Admixtures for screeds

28.3 Form-release agents

28.4 Superficial curing compounds

28.5 Mapei Color Paving

29. AGGREGATES AND MORTARS FOR THE BUILDING INDUSTRY

29.1 Mortars for the building industry

29.2 Pre-blended mortars for the building industry

29.3 Concrete for the building industry

29.4 Screeds for the building industry

29.5 Service products

29.6 Damp aggregates for the building industry

29.7 Dry aggregates for the building industry
ALPHABETICAL INDEX

A
Additix P 268
Additix PE 138
Adesilex G19 100
Adesilex G19 Conductive 100
Adesilex G19 Fast 100
Adesilex G19 FR Fast 101
Adesilex G20 101
Adesilex G20 Fast 101
Adesilex LC/R 76
Adesilex LP 103
Adesilex MT32 90
Adesilex P4 16/38
Adesilex P9 38
Adesilex P9 Express 38
Adesilex P10 38
Adesilex P22 44
Adesilex PG1 208/216
Adesilex PG1 Rapid 208/216
Adesilex PG2 208/216
Adesilex PG4 208/279
Adesilex SBC 67
Adesilex SBC HP 67
Adesilex S4 90
Adesilex VS45 90
Adesilex VZ 103
Adesivil D3 76
Antipiuviol 244
Antipiuviol S 244
Antipiuviol W 244
Aquatex T 90
Aquatex 268
Aquatex Roof 268
Aquatex Roof HR 268
Aquatex Roof Plus 268
Aquatex Roof Premium 269

B
BetonLiquid* 305
Biblock 26
Biostabiliatura* 302

C
Cablejett 288
CALCESTRUZZO RCK30 305
CALCESTRUZZO RCK40 305
Carboplate 216
Carbotope 217
Cleaner H 115
Cleaner L 115
Colorite Betton 244
Colorite Matt 245
Colorite Performance 245
Color Paving Admix 297
Color Paving Binder 298
Color Paving Pronto 298
Consolidate 8020 152
Consolidate ETS 152
Consolidate ETS WR 152
Copper Band 138

D
DMA 1000 296
DMA 2000 296
Drain Front 269
Drain Vertical/Drain Lateral 269
Dreno* 306
Duresil EB 245
Dursilac Base Filler 245
Dursilac Gloss 246
Dursilac Matt 246
Dursilac No Rust 246
Dursilac Satin 246
Dursilite 247
Dursilite Base Coat 247
Dursilite Gloss 247
Dursilite Matt 247
Dursilite Plus 248
Dynamon SX 288

E
Eco Prim Grip 26
Eco Prim PU 1K 26
Eco Prim PU 1K Turbo 26
Eco Prim T 27
Eco Prim T Plus 27
Eco Prim VG 27
Elastocolor Net 248
Elastocolor Paint 248
Elastocolor Paint Plus 248
Elastocolor Primer 249
Elastocolor Rasante 249
Elastocolor Rasante SF 249
Elastocolor Tonachino Plus 249
Elastocolor Waterproof 250
Elastorapid 39
Epojet 209/217
Epojet LV 209
Eporip 27/209
Eporip SCR 28
Eporip Turbo 28/209
Epoxy Speed 138
Expancrete Plus 288
Expanfluid 288
EXTRABETON* 306

F
Fiberplan 11
Fibres HPC 227/229
FIBROMalta 302
FIBROstabilisierung* 302
Fix & Grout Brick 44
Flexcolor 50
Flexcolor 4 LVT 98
FRANTUMATA* 308
Fuga Fresca 110
Fuglastic 48

G
Glicovil Special 103
Granirapid 39/104
Grasso di CALCE* 302
Gravel 0-8 10/173
Gravel 0-15 173
Gravel 3-5 173
Gravel 6-10 173
Gravel - Bardiglio Grey (2-4 mm) 138
Gravel - Carrara White (2-4 mm) 139
Gravel - Ebony Black (2-4 mm) 139

H
HR10 Fibro* 303
HR15* 303

I
Idrocrete DM 289
Idrocrete KR 1000 289
Idrocrete S 289
Idrosilax 260
Idrostop 279
Idrostop B25 280
Idrostop Mastic 280
Idrostop PVC BE 280
Idrostop PVC Bl 280
Idrostop Soft 281
Injectors 92 23 217
INTO* 304
INTO + Fibro* 304
Intomap Allettamento 188
Intomap Allettamento H 188

K
Kerabond 39
Kerabond Plus 40
Kerabond T 40
Keracolor FF 48
Keracolor GG 48
Keracolor PPN 54
Keracolor SF 48
Keracrete 40
Keraflex 40
Keraflex Easy S1 41
Keraflex Maxi S1 41
Keraflex Maxi S1 Zero 41
Keralastic 44
Keralastic T 45
Keranet 110
Kerasoxy 49
Kerasoxy 4 LVT 98
Kerasoxy Adhesive 45
Kerasoxy Cleaner 110
Kerasoxy CQ 49
Kerasoxy Design 49
Kerasoxy EIG 50
Kerasoxy P 50
Keraquick Maxi S1 41
Keraset 42

L
Lampocem 200
Lamposilex 260
Latex Plus 42
Lignobond 76
Livigum 28

M
Malech 28/250
Malta+ Fibro* 304
MaltaBASTARD* 303
MaltaVISTA* 303
Mapear AE1 289
Mapear LA/P 290
Mape-Antique Allettamento 160
Mape-Antique CC 155
Mape-Antique Colabile 153
Mape-Antique Ecolastic 161
Mape-Antique Eco Rasante Civile 159
Mape-Antique Eco Rasante Grosso 159
Mape-Antique Eco Rinzafto 156
Mape-Antique Eco Risana 156
Mape-Antique F21 153
Mape-Antique FC Civile 159
Mape-Antique FC Grosso 159
Mape-Antique FC Ultraline 160
Mape-Antique I 153
Mape-Antique I-15 153
Mape-Antique Intonaco NHL 158
Mape-Antique LC 156
Mape-Antique MC 156
Mape-Antique MC Macchina 157
Mape-Antique Rinzafto 157
Mape-Antique Strutturale NHL 158/160
Mape-Asphalt Repair 0/8 146
Mapeband 281
Mapeband Easy 281
Mapeband Flex Roll 281
Mapeband PE 120 282
Mapeband SA 282
Mapeband TPE 282

* VAGA Products
<table>
<thead>
<tr>
<th>INDEX BY SECTOR</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MapePUR Gun Special</td>
<td>73</td>
</tr>
<tr>
<td>MapePUR Gun Standard</td>
<td>73</td>
</tr>
<tr>
<td>MapePUR Multi Adhesive Foam G</td>
<td>71</td>
</tr>
<tr>
<td>MapePUR Roof Foam G</td>
<td>72</td>
</tr>
<tr>
<td>MapePUR Roof Foam M</td>
<td>72</td>
</tr>
<tr>
<td>MapePUR Universal Foam G</td>
<td>72</td>
</tr>
<tr>
<td>MapePUR Universal Foam M</td>
<td>72</td>
</tr>
<tr>
<td>Maperod C</td>
<td>220</td>
</tr>
<tr>
<td>Maperod G</td>
<td>221</td>
</tr>
<tr>
<td>Mapescreed 720</td>
<td>295</td>
</tr>
<tr>
<td>Mapescreed Advance HR</td>
<td>294</td>
</tr>
<tr>
<td>Mapescreed Advance MR</td>
<td>294</td>
</tr>
<tr>
<td>Mapescreed Finish</td>
<td>295</td>
</tr>
<tr>
<td>Mapescreed HF GEL</td>
<td>295</td>
</tr>
<tr>
<td>Mapescreed Slowset</td>
<td>295</td>
</tr>
<tr>
<td>Mapeshield E 25</td>
<td>172/212</td>
</tr>
<tr>
<td>Mapeshield I</td>
<td>172/212</td>
</tr>
<tr>
<td>MapeSil 300°C</td>
<td>60</td>
</tr>
<tr>
<td>MapeSil AC</td>
<td>60/284</td>
</tr>
<tr>
<td>MapeSil BM</td>
<td>63</td>
</tr>
<tr>
<td>MapeSilent Band R</td>
<td>20</td>
</tr>
<tr>
<td>MapeSilent Comfort</td>
<td>20</td>
</tr>
<tr>
<td>MapeSilent Panel</td>
<td>20</td>
</tr>
<tr>
<td>MapeSilent Roll</td>
<td>20</td>
</tr>
<tr>
<td>MapeSilent Tape</td>
<td>21</td>
</tr>
<tr>
<td>MapeSil GP</td>
<td>63</td>
</tr>
<tr>
<td>MapeSil LM</td>
<td>63</td>
</tr>
<tr>
<td>MapeSil U</td>
<td>60</td>
</tr>
<tr>
<td>MapeSil Z Plus</td>
<td>60</td>
</tr>
<tr>
<td>MapeSlope</td>
<td>273</td>
</tr>
<tr>
<td>MapeSonic CR</td>
<td>21</td>
</tr>
<tr>
<td>MapeSonic GD 4 LVT</td>
<td>21/99</td>
</tr>
<tr>
<td>MapeSonic SA 4 LVT</td>
<td>21/99</td>
</tr>
<tr>
<td>MapeSonic Strip</td>
<td>22</td>
</tr>
<tr>
<td>Mapestone Joint</td>
<td>54</td>
</tr>
<tr>
<td>Mapestone Joint Cleaner</td>
<td>54</td>
</tr>
<tr>
<td>MapeStone PFS 2</td>
<td>54</td>
</tr>
<tr>
<td>MapeStone PFS 2 Visco</td>
<td>55</td>
</tr>
<tr>
<td>MapeStone PFS PCC 2</td>
<td>55</td>
</tr>
<tr>
<td>MapeStone Scraper</td>
<td>55</td>
</tr>
<tr>
<td>MapeStone TFB 60</td>
<td>55</td>
</tr>
<tr>
<td>MapeStone TFB Cube</td>
<td>56</td>
</tr>
<tr>
<td>Mapestop</td>
<td>154</td>
</tr>
<tr>
<td>Mapestop Cream</td>
<td>154</td>
</tr>
<tr>
<td>Mapestop Cream Tool 280</td>
<td>154</td>
</tr>
<tr>
<td>Mapestop Cream Tool 600</td>
<td>155</td>
</tr>
<tr>
<td>Mapestop Injectors</td>
<td>155</td>
</tr>
<tr>
<td>Mapestop Kit Diffusion</td>
<td>155</td>
</tr>
<tr>
<td>Mapefine</td>
<td>285</td>
</tr>
<tr>
<td>Mapetard</td>
<td>294</td>
</tr>
<tr>
<td>Mapetard ES</td>
<td>179</td>
</tr>
<tr>
<td>Mapetex 50</td>
<td>273</td>
</tr>
<tr>
<td>Mapetex FG</td>
<td>274</td>
</tr>
<tr>
<td>Mapetex Sel</td>
<td>274</td>
</tr>
<tr>
<td>Mapetex System</td>
<td>111</td>
</tr>
<tr>
<td>Mapethene HT</td>
<td>264</td>
</tr>
<tr>
<td>Mapethene LT</td>
<td>264</td>
</tr>
<tr>
<td>Mapethene Primer</td>
<td>264</td>
</tr>
<tr>
<td>Mapethene Primer W</td>
<td>265</td>
</tr>
<tr>
<td>Mapetherm AR1</td>
<td>232</td>
</tr>
<tr>
<td>Mapetherm AR1 GG</td>
<td>232</td>
</tr>
<tr>
<td>Mapetherm AR1 Light</td>
<td>232</td>
</tr>
<tr>
<td>Mapetherm AR1 Maxi</td>
<td>232</td>
</tr>
<tr>
<td>Mapetherm Ba</td>
<td>233</td>
</tr>
<tr>
<td>Mapetherm Cork</td>
<td>233</td>
</tr>
<tr>
<td>Mapetherm Dripnose Bead</td>
<td>233</td>
</tr>
<tr>
<td>Mapetherm EPS</td>
<td>233</td>
</tr>
<tr>
<td>Mapetherm FIX</td>
<td>234</td>
</tr>
<tr>
<td>Mapetherm FIX 9</td>
<td>234</td>
</tr>
<tr>
<td>Mappetherm Mix B</td>
<td>234</td>
</tr>
<tr>
<td>Mappetherm Mix RP</td>
<td>234</td>
</tr>
<tr>
<td>Mappetherm M. Wool</td>
<td>235</td>
</tr>
<tr>
<td>Mappetherm Net</td>
<td>235</td>
</tr>
<tr>
<td>Mappetherm Profil</td>
<td>235</td>
</tr>
<tr>
<td>Mappetherm Profil Ba</td>
<td>235</td>
</tr>
<tr>
<td>Mappetherm Profil E</td>
<td>236</td>
</tr>
<tr>
<td>Mappetherm Profil V</td>
<td>236</td>
</tr>
<tr>
<td>Mappetherm Profil W</td>
<td>236</td>
</tr>
<tr>
<td>Mappetherm Tile Fix 15</td>
<td>111</td>
</tr>
<tr>
<td>Mapetiles Removable System</td>
<td>111</td>
</tr>
<tr>
<td>Mapetop N AR6</td>
<td>135</td>
</tr>
<tr>
<td>Mapetop S AR3</td>
<td>136</td>
</tr>
<tr>
<td>MapetWall Inject &amp; Consolidate</td>
<td>154</td>
</tr>
<tr>
<td>MapetWall Intonaco Base</td>
<td>158</td>
</tr>
<tr>
<td>MapetWall Muratura Fine</td>
<td>161</td>
</tr>
<tr>
<td>MapetWall Muratura Grosso</td>
<td>161</td>
</tr>
<tr>
<td>MapetWall Render &amp; Strengthen</td>
<td>158/161</td>
</tr>
<tr>
<td>Mapewash P0</td>
<td>299</td>
</tr>
<tr>
<td>Mapewash Proxi 1</td>
<td>299</td>
</tr>
<tr>
<td>Mapewood Gel 120</td>
<td>164</td>
</tr>
<tr>
<td>Mapewood Paste 140</td>
<td>164</td>
</tr>
<tr>
<td>Mapewood Primer 100</td>
<td>164</td>
</tr>
<tr>
<td>Mapewrap 11</td>
<td>221</td>
</tr>
<tr>
<td>Mapewrap 12</td>
<td>221</td>
</tr>
<tr>
<td>Mapewrap 21</td>
<td>221</td>
</tr>
<tr>
<td>Mapewrap 31</td>
<td>222</td>
</tr>
<tr>
<td>Mapewrap 31 T</td>
<td>222</td>
</tr>
<tr>
<td>Mapewrap B FIOCCO</td>
<td>222</td>
</tr>
<tr>
<td>Mapewrap B UNI-AX</td>
<td>222</td>
</tr>
<tr>
<td>Mapewrap C BA-AX</td>
<td>223</td>
</tr>
<tr>
<td>Mapewrap C Connector</td>
<td>223</td>
</tr>
<tr>
<td>Mapewrap C FIOCCO</td>
<td>223</td>
</tr>
<tr>
<td>Mapewrap C QUADRI-AX</td>
<td>223</td>
</tr>
<tr>
<td>Mapewrap C UNI-A1X</td>
<td>224</td>
</tr>
<tr>
<td>Mapewrap EG Adhesive</td>
<td>224</td>
</tr>
<tr>
<td>Mapewrap EG Net</td>
<td>224</td>
</tr>
<tr>
<td>Mapewrap G FIOCCO</td>
<td>225</td>
</tr>
<tr>
<td>Mapewrap G UNI-A1X</td>
<td>225</td>
</tr>
<tr>
<td>Mapewrap Primer</td>
<td>225</td>
</tr>
<tr>
<td>Mapewrap S Fabric 650</td>
<td>225</td>
</tr>
<tr>
<td>Mapewrap S Fabric 2000</td>
<td>226</td>
</tr>
<tr>
<td>Mapewrap SG FIOCCO</td>
<td>226</td>
</tr>
<tr>
<td>MB1 Paviaclase*</td>
<td>307</td>
</tr>
<tr>
<td>MISTA*</td>
<td>308</td>
</tr>
<tr>
<td>Monofinish</td>
<td>192</td>
</tr>
<tr>
<td>Monolastic</td>
<td>274</td>
</tr>
<tr>
<td>NERO++</td>
<td>307</td>
</tr>
<tr>
<td>Novopen C</td>
<td>16/192</td>
</tr>
<tr>
<td>Novorapid</td>
<td>11</td>
</tr>
<tr>
<td>Novoplan Maxi</td>
<td>12</td>
</tr>
<tr>
<td>P</td>
<td>Pianocem M</td>
</tr>
<tr>
<td>Pianodor R</td>
<td>12</td>
</tr>
<tr>
<td>Planex HR</td>
<td>12</td>
</tr>
<tr>
<td>Planex HR Maxi</td>
<td>13</td>
</tr>
<tr>
<td>Planibond BA 100</td>
<td>204</td>
</tr>
<tr>
<td>Planicrete</td>
<td>29/294</td>
</tr>
<tr>
<td>Planigrount 300</td>
<td>204</td>
</tr>
<tr>
<td>Planigrount 310</td>
<td>205</td>
</tr>
<tr>
<td>Planipatch</td>
<td>13</td>
</tr>
<tr>
<td>Planipatch Fast Track</td>
<td>13</td>
</tr>
<tr>
<td>Planiprep 4 LVT</td>
<td>13/99</td>
</tr>
<tr>
<td>Planiprep Contract</td>
<td>14</td>
</tr>
<tr>
<td>Planiprep Fast Track</td>
<td>14</td>
</tr>
<tr>
<td>Planiprep Remove 4 LVT</td>
<td>14/99</td>
</tr>
<tr>
<td>Planiseal 88</td>
<td>265</td>
</tr>
<tr>
<td>Planiseal 288</td>
<td>265</td>
</tr>
<tr>
<td>Planiseal WR 40</td>
<td>184</td>
</tr>
<tr>
<td>Planiseal WR 85 Gel</td>
<td>184</td>
</tr>
<tr>
<td>Planiseal WR 100</td>
<td>193</td>
</tr>
<tr>
<td>Planitop 100</td>
<td>193</td>
</tr>
<tr>
<td>Planitop 200</td>
<td>193</td>
</tr>
<tr>
<td>Planitop 207</td>
<td>193</td>
</tr>
<tr>
<td>Planitop 210</td>
<td>194</td>
</tr>
<tr>
<td>Planitop 217</td>
<td>194</td>
</tr>
<tr>
<td>Planitop 400</td>
<td>180</td>
</tr>
<tr>
<td>Planitop 510</td>
<td>194</td>
</tr>
<tr>
<td>Planitop 517</td>
<td>194</td>
</tr>
<tr>
<td>Planitop 525</td>
<td>195</td>
</tr>
<tr>
<td>Planitop 530</td>
<td>195</td>
</tr>
<tr>
<td>Planitop 540</td>
<td>195</td>
</tr>
<tr>
<td>Planitop 560</td>
<td>195</td>
</tr>
<tr>
<td>Planitop 565</td>
<td>195</td>
</tr>
<tr>
<td>Planitop 600 RasaGesso</td>
<td>196</td>
</tr>
<tr>
<td>Planitop 610 RasaGesso M</td>
<td>196</td>
</tr>
<tr>
<td>Planitop Fast 330</td>
<td>17/196</td>
</tr>
<tr>
<td>Planitop Fine Finish</td>
<td>196</td>
</tr>
<tr>
<td>Planitop HDM Maxi</td>
<td>226</td>
</tr>
<tr>
<td>Planitop HDM Restauro</td>
<td>226</td>
</tr>
<tr>
<td>Planitop HPC</td>
<td>227</td>
</tr>
<tr>
<td>Planitop HPC Floor</td>
<td>227</td>
</tr>
<tr>
<td>Planitop HPC Floor 46</td>
<td>227</td>
</tr>
<tr>
<td>Planitop HPC Floor 46 T</td>
<td>228</td>
</tr>
<tr>
<td>Planitop HPC Floor T</td>
<td>228</td>
</tr>
<tr>
<td>Planitop HPC LV</td>
<td>228</td>
</tr>
<tr>
<td>Planitop HPC Tixo</td>
<td>229</td>
</tr>
<tr>
<td>Planitop Intonaco Armato</td>
<td>229</td>
</tr>
<tr>
<td>Planitop Raso Max</td>
<td>197</td>
</tr>
<tr>
<td>Planitop Smooth &amp; Repair</td>
<td>180</td>
</tr>
<tr>
<td>Planitop Smooth &amp; Repair R4</td>
<td>180</td>
</tr>
<tr>
<td>Planitop Superfine</td>
<td>197</td>
</tr>
<tr>
<td>Planogur</td>
<td>14</td>
</tr>
<tr>
<td>Plastimul</td>
<td>265</td>
</tr>
<tr>
<td>Plastimul 1K Super Plus</td>
<td>266</td>
</tr>
<tr>
<td>Plastimul 2K Plus</td>
<td>266</td>
</tr>
<tr>
<td>Plastimul 2K Reactive</td>
<td>266</td>
</tr>
<tr>
<td>Plastimul 2K Super</td>
<td>266</td>
</tr>
<tr>
<td>Plastimul C</td>
<td>267</td>
</tr>
<tr>
<td>Plastimul Primer</td>
<td>267</td>
</tr>
<tr>
<td>Plastimul Primer SB</td>
<td>267</td>
</tr>
<tr>
<td>Polocril</td>
<td>168</td>
</tr>
<tr>
<td>Polocril FF</td>
<td>168</td>
</tr>
<tr>
<td>Porocem</td>
<td>157</td>
</tr>
<tr>
<td>Porocem Deumidificante</td>
<td>157</td>
</tr>
<tr>
<td>Porocem Finitura</td>
<td>160</td>
</tr>
<tr>
<td>Porocem Rinzaft Plus</td>
<td>157</td>
</tr>
<tr>
<td>Primer 3206</td>
<td>29/152</td>
</tr>
<tr>
<td>Primer A</td>
<td>69</td>
</tr>
<tr>
<td>Primer BI</td>
<td>30/274</td>
</tr>
<tr>
<td>Primer EP</td>
<td>30/69</td>
</tr>
<tr>
<td>Primer EP 4 Fast</td>
<td>275</td>
</tr>
<tr>
<td>Primer EP 100WF</td>
<td>275</td>
</tr>
<tr>
<td>Primer EP Rustop</td>
<td>30/134</td>
</tr>
<tr>
<td>Primer FD</td>
<td>69</td>
</tr>
<tr>
<td>Primer for Aquaflow</td>
<td>275</td>
</tr>
<tr>
<td>Primer G</td>
<td>31</td>
</tr>
<tr>
<td>Primer G Conductive</td>
<td>31/112</td>
</tr>
<tr>
<td>Primer Grip White</td>
<td>134</td>
</tr>
<tr>
<td>Primer KL</td>
<td>31</td>
</tr>
<tr>
<td>Primer LT</td>
<td>134</td>
</tr>
<tr>
<td>Primer M</td>
<td>31/70</td>
</tr>
<tr>
<td>Primer MF</td>
<td>32/70</td>
</tr>
<tr>
<td>Primer MF EC Plus</td>
<td>32</td>
</tr>
<tr>
<td>Primer P</td>
<td>32/70</td>
</tr>
<tr>
<td>Primer P1</td>
<td>32/275</td>
</tr>
<tr>
<td>Primer P2</td>
<td>33/276</td>
</tr>
<tr>
<td>Primer P3</td>
<td>33/276</td>
</tr>
<tr>
<td>Primer PU60</td>
<td>33/70</td>
</tr>
</tbody>
</table>
Primer PU Fast 276
Primer RM 148
Primer S 33
Primer SN 34/135
Primer SN Rasante 135
Primer W-AS 135
Prosfas 34
PU Catalyst 141
Pulicol 2000 113
Purtop 400 M 276
Purtop 600 277
Purtop 1000 277
Purtop ADY 277
Purtop Easy 277
Purtop Easy DW 278
Purtop Easy T 278
Purtop Easy T Primer 278
Purtop FR 278
Purtop HA 279
Purtop Primer Black 279

Q
Quartz 0.5 142
Quartz 0.9 142
Quartz 0.25 142
Quartz 1.2 34/142
Quartz 1.9 143
Quarzolite Base Coat 251
Quarzolite HF Plus 251
Quarzolite Paint 252
Quarzolite Tonachino 252
Quarzolite Tonachino Plus 252

R
RASATM 305
Resfoam 1-KM 267
Rete 320 143
Rocoll 91

S
SabiaCEMENTO 307
SABBIALS 308
SAETTM 306
Silancolor AC Paint 252
Silancolor AC Paint Plus 253
Silancolor AC Tonachino 253
Silancolor AC Tonachino Plus 253
Silancolor Base Coat 253
Silancolor Base Coat Plus 254
Silancolor Cleaner Plus 254
Silancolor Paint 254
Silancolor Paint Plus 254
Silancolor Primer 255
Silancolor Primer Plus 255
Silancolor Tonachino 255
Silancolor Tonachino Plus 255
Silicxcolor Base Coat 256
Silicxcolor Marmorino 256
Silicxcolor Paint 256
Silicxcolor Primer 256
Silicxcolor Tonachino 257
Silwood 81
Spacers 4 LVT 100
Spindle for Mapei Steel Dry 229
Stabilcem 180

T
Thinner for adhesives 34
Thinner PU 35
TICOBIO 309
Tixobond White 42
Topcem 10
Topcem Pronto 11
Triblock Finish 197

U
Ultrabond 333 91
Ultrabond Eco 4 LVT 91
Ultrabond Eco 185 92
Ultrabond Eco 350 92
Ultrabond Eco 375 92
Ultrabond Eco 380 92
Ultrabond Eco 520 93
Ultrabond Eco 530 93
Ultrabond Eco 540 93
Ultrabond Eco 571 2K 101
Ultrabond Eco 575 76/93
Ultrabond Eco Contact 103
Ultrabond Eco Decor Dry 94
Ultrabond Eco Decor Wet 102
Ultrabond Eco Fast Track 94
Ultrabond Eco Fix 94
Ultrabond Eco MS 4 LVT 102
Ultrabond Eco MS 4 LVT Wall 102
Ultrabond Eco P909 2K 77
Ultrabond Eco P909 2K Fast 77
Ultrabond Eco P909 2K Plus 77
Ultrabond Eco PU 2K 45
Ultrabond Eco S940 1K 77
Ultrabond Eco S948 1K 78
Ultrabond Eco S955 1K 78
Ultrabond Eco S958 1K 78
Ultrabond Eco S968 1K 78
Ultrabond Eco S1000 1K 102
Ultrabond Eco S Lite 79
Ultrabond Eco S Plus 79
Ultrabond Eco Tack 94
Ultrabond Eco Tack 4 LVT 95
Ultrabond Eco Tack TX+ 95
Ultrabond Eco TX1 95
Ultrabond Eco TX2 95
Ultrabond Eco TX9 96
Ultrabond Eco V4 Evolution 96
Ultrabond Eco V4SP 96
Ultrabond Eco V4SP Conductive 96
Ultrabond Eco V4SP Fiber 97
Ultrabond Eco VS30 97
Ultrabond Eco VS90 Plus 97
Ultrabond MS Rapid 66/285
Ultrabond P902 2K 79
Ultrabond P913 2K 79
Ultrabond P980 1K 80
Ultrabond P990 1K 80
Ultrabond P-R9 114
Ultrabond PU Strong 66
Ultrabond S965 1K 80
Ultrabond S997 1K 80
Ultrabond Super Grip 66/97
Ultratuf Turf 2 Stars 104
Ultratuf Turf 2 Stars Pro 104
Ultratuf Turf 2 Stars W 105
Ultratuf Turf LS 105
Ultratuf Turf PU 1K 105
Ultratuf Turf PU 1K LC 105
Ultratuf Turf PU 2K 105
Ultratuf Turf Repair 106
Ultratuf Turf Tape 100 106
Ultratuf Turf Tape 300 106
Ultratuf Turf Tape Pro 107
Ultratuf TX7 98
Ultraceat Aqua Plus 81
Ultraceat Base One 81

V
VAGAlighTher 304
VAGAUQUAR 306
VAGASIL 308
VAGLIAT 309
VAGLIATA Super 309
VG05 309
VG15 309
VG17FS 309
VG16SS 309
VG17FS 310
VG17FS 310
Vinavil 03V 240
SCREEDS AND SMOOTHING COMPOUNDS
1. SCREEDS AND SMOOTHING COMPOUNDS

1.1 Screeds

Mapecem
Special binder for quick-setting and drying (24 hours), shrinkage-compensated screeds.

**TECHNICAL DATA:**
- **Recommended mixing ratio:** 350-450 kg of MAPECEM for 1 m³ of aggregates (diameter from 0 to 8 mm) and with 80-160 kg of water according to the moisture content of the aggregates.
- **Workability time:** 20-30 minutes.
- **Set to light foot traffic:** after 2-3 hours.
- **Waiting time before laying:**
  - 3 hours for ceramic tiles and stone material;
  - 24 hours for resilient and wood coverings.
- **Residual humidity after 24 hours:** less than 2%.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** tapping and flattening with a straight edge.
- **Consumption:** 3.5-4.5 kg/m² per cm of thickness.
- **Packaging:** 20 kg bags.

Gravel 0-8
Blend of aggregates for MAPECEM, assorted grain size from 0 to 8 mm.

**TECHNICAL DATA:**
- **Size of aggregate:** assorted grain size from 0 to 8 mm.
- **Consumption:** 1.6 kg/m² per mm of thickness.
- **Packaging:** 20 kg bags.

Mapecem Pronto
Pre-blended, ready-to-use mortar for quick-setting and drying (24 hours), shrinkage-compensated screeds.

**TECHNICAL DATA:**
- **Mixing ratio:** 1 25 kg bags of MAPECEM PRONTO with approximately 2.2 litres of water.
- **Workability time:** 20-30 minutes.
- **Set to light foot traffic:** after 2-3 hours.
- **Waiting time before laying:**
  - 3 hours for ceramic tiles and stone material;
  - 24 hours for resilient and wood coverings.
- **Residual humidity after 24 h.** less than 2%.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** tapping and flattening with a straight edge.
- **Consumption:** 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg bags.

Topcem
Special binder for normal-setting, quick-drying (4 days), shrinkage-compensated hydraulic screeds.

**TECHNICAL DATA:**
- **Recommended mixing ratio:** 200-250 kg of TOPCEM with 1 m³ of aggregates (diameter from 0 to 8 mm) and 120-140 kg of water for dry aggregates.
- **Workability time:** 40-60 minutes.
- **Set to light foot traffic:** after 12 hours.
- **Waiting time before laying:** 24 hours for ceramic tiles, 2 days for natural stone and 4 days for resilient and wood coverings.
- **Residual humidity after 4 days:** less than 2%.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** tapping and flattening with a straight edge.
- **Consumption:** 2-2.5 kg/m² per cm of thickness.
- **Packaging:** 20 kg bags.
### Topcem Pronto
Ready-to-use, ready mixed, shrinkage compensated, mortar with high thermal conductivity for quick-drying screeds.

**TECHNICAL DATA:**
- **Mixing ratio:** 1.25 kg bags of TOPCEM PRONTO with 1.7 litres of water.
- **Workability time:** 40-60 minutes.
- **Waiting time before laying:** 24 hours for ceramic tiles, 2 days for natural stone and 4 days for resilient and wood coverings.
- **Residual humidity after 4 days:** less than 2%.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** tapping and flattening with a straight edge.
- **Consumption:** 18-20 kg/m² per cm of thickness according to the compaction degree.
- **Thermal efficiency:** $\lambda = 2.008$ W/mK.
- **Packaging:** 25 kg bags.

### Mapefibre ST30/ST42
Structural polymer fibres for concrete and cementitious screeds. May be used to completely or partially replace conventional reinforcement. Available fibre length: 30 and 42 mm.

**TECHNICAL DATA:**
- **Dosage:** from 1 to 7 kg per cubic metre of mix.
- **Packaging:** 6 kg polyethylene bags.

### Fiberplan
Self-levelling, fibre-reinforced, ultra rapid hardening smoothing compound for thicknesses from 3 to 10 mm. Particularly recommended for wooden substrates.

**TECHNICAL DATA:**
- **Where to use:** internal ceramic, natural stone floors, resilient and wooden floorings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** from 3 to 10 mm.
- **Set to light foot traffic:** approx. 3 hours.
- **Waiting time before laying:** 3 hours for stable and not sensitive to moisture ceramic tiles and natural stone, 12 hours for resilient and wood coverings.
- **Colour:** pinkish grey.
- **Application:** trowel or rake.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 1.5 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

### Nivorapid
Quick-drying, thixotropic, cementitious smoothing compound for thicknesses from 1 to 20 mm, including on vertical surfaces. Ideal for localised repair works.

**TECHNICAL DATA:**
- **Where to use:** internal floors and walls for ceramic, natural stone, resilient and wooden floorings.
- **Workability time:** 15 minutes.
- **Thickness applied:** from 1 to 20 mm.
- **Set to light foot traffic:** approx. 2 hours.
- **Waiting time before laying:** 4-6 hours for ceramic tiles and natural stone, 6-12 hours for parquet and resilient floorings.
- **Colour:** grey.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** metal trowel.
- **Consumption:** 1.6 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.
1. SCREEDS AND SMOOTHING COMPOUNDS

**Novoplan Maxi**
Rapid-hardening, fibre-reinforced, free-flowing cementitious levelling mortar with high thermal efficiency applied in layers from 3 to 40 mm thick, specifically designed for underfloor heating/cooling systems.

**TECHNICAL DATA:**
- **Where to use:** covering compact, under-floor heating/cooling systems and levelling off all types of existing heated floors.
- **Workability time:** 30-40 minutes.
- **Thickess applied per coat:** from 3 to 40 mm.
- **Set to light foot traffic:** 3 hours.
- **Waiting time before bonding flooring:** ceramic and natural stone flooring not sensitive to damp 12-24 h; flooring sensitive to damp 2 days per cm of thickness applied.
- **Application:** trowel, rake, levelling bar or pump.
- **EMICODE:** EC1 Plus - very low emission.
- **Mixing ratio:** 16-18 parts of water per 100 parts by weight of NOVOPLAN MAXI.
- **Consumption:** 1.8 kg/m² per mm of thickness.
- **Thermal efficiency:** $\lambda = 1.727$ W/mK.
- **Storage:** 12 months.
- **Packaging:** 25 kg bags.

**Pianocem M**
Thixotropic cementitious smoothing compound for thicknesses from 1 to 5 mm, including on vertical surfaces.

**TECHNICAL DATA:**
- **Where to use:** internal floors and walls for resilient coverings.
- **Workability time:** 4 hours.
- **Thickness applied:** up to 3 mm.
- **Set to light foot traffic:** from 4 to 24 hours depending on the surrounding temperature.
- **Waiting time before laying:** 1-3 days for resilient coverings.
- **Colour:** grey.
- **Storage:** 12 months.
- **Application:** trowel.
- **Consumption:** 1.4 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Pianodur R**
Fine-grained, ultra quick-setting self-levelling smoothing compound for thicknesses up to 3 mm per coat, suitable for floors subject to intense traffic.

**TECHNICAL DATA:**
- **Where to use:** internal floors for resilient coverings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** up to 3 mm.
- **Set to light foot traffic:** 3 hours.
- **Waiting time before laying:** 12 hours for resilient coverings.
- **EMICODE:** EC1 Plus - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Application:** trowel or rake.
- **Consumption:** 1.5 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Planex HR**
Rapid-drying, moisture-resistant, self-levelling smoothing compound for layers 1 to 10 mm thick. Also suitable for smoothing off internal surfaces; smoothing off internal substrates before bonding non-welded resilient floor tiles with reactive adhesives in areas that need to be washed or rinsed frequently; smoothing over concrete substrates with rising damp before placing PVC uncoupling sheets (such as MAPELAY).

**TECHNICAL DATA:**
- **Where to use:** internal and external floors and walls for ceramic, natural stone, resilient and wooden coverings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** from 0 to 10 mm.
- **Set to light foot traffic:** approx. 3 hours.
- **Waiting time before laying:** 24-48 hours for ceramic tiles and natural stone, 12 hours for resilient coverings.
- **EMICODE:** EC1 Plus - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Application:** rake, trowel or pump.
- **Consumption:** 1.7 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.
Planex HR Maxi
Rapid-drying, moisture-resistant, selflevelling smoothing compound for layers 2 to 20 mm thick. Also suitable for smoothing off internal surfaces; smoothing off internal substrates before bonding non-welded resilient floor tiles with reactive adhesives in areas that need to be washed or rinsed frequently; smoothing over concrete substrates with rising damp before placing PVC uncoupling sheets (such as MAPELAY).

TECHNICAL DATA:
Where to use: internal and external floors and walls for ceramic, natural stone, resilient and wooden coverings.
Workability time: 20-30 minutes.
Thickness applied: from 2 to 20 mm.
Set to light foot traffic: approx. 3 hours.
Waiting time before laying: 24-72 hours for ceramic tiles and natural stone, 12 hours for resilient coverings.
EMICODE: EC1 Plus - very low emission.
Colour: grey.
Storage: 12 months.
Application: rake, trowel or pump.
Consumption: 1.7 kg/m² per mm of thickness.
Packaging: 25 kg bags.

Planipatch
Fine-grained, ultra quick-drying, thixotropic cementious smoothing compound for thicknesses from 0 to 10 mm, including on vertical surfaces.

TECHNICAL DATA:
Where to use: internal floors and walls for ceramic, natural stone, resilient and wooden coverings.
Workability time: approx. 10 minutes.
Thickness applied: from 0 to 10 mm.
Set to light foot traffic: approx. 1 hour.
Waiting time before laying: 4-6 hours for ceramic tiles and natural stone, 12 hours for resilient coverings.
EMICODE: EC1 Plus - very low emission.
Colour: grey.
Storage: 12 months.
Application: trowel.
Consumption: 1.5 kg/m² per mm of thickness.
Packaging: 25 kg bags.

Planipatch Fast Track
Fine-grained, ultra quick-drying, thixotropic smoothing compound for:– repairs up to 25 mm;– laying of resilient coverings after 1 hour.

TECHNICAL DATA:
Where to use: internal floors and walls for ceramic, natural stone, resilient and wooden coverings.
Workability time: approx. 10 minutes.
Thickness applied: from 0 to 25 mm.
Set to light foot traffic: approx. 1 hour.
Waiting time before laying: 1 hour.
Colour: grey.
Storage: 12 months.
Application: trowel.
Consumption: 1.5 kg/m² per mm of thickness.
Packaging: 23 kg bags and 20 kg boxes containing 4x5 kg aluminium bags.

Planiprep 4 LVT
Ready-to-use smoothing compound for levelling off existing substrates with joint before laying LVT coatings. Existing interior ceramic and natural stone substrates can be levelled and smooth over (down to a feather edge up to a thickness of 2 mm) filling joints and gaps between the tiles creating a fine a smooth surface suitable for bonding loose-lay LVT tiles and planks using reactive adhesives, such as ULTRABOND ECO MS 4 LVT and ULTRABOND ECO MS 4 LVT WALL in a very short time (after 2 hours).

TECHNICAL DATA:
Where to use: internal floors and walls for loose-lay LVT.
Consistency: thick paste.
Colour: white.
Thickness applied: 0-2 mm (up to 3-4 mm in gaps and jointed).
Set to light foot traffic: approx. 1 hour.
Waiting time before sanding and applying LVT: approx. 2 hours.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Application: trowel.
Consumption: 80-100 g/m².
Packaging: 10 kg drums.
1. SCREEDS AND SMOOTHING COMPOUNDS

**Planiprep Contract**
Fine textured cementitious skimming compound, suitable for levelling and skimming, also in more than one coat, new and existing internal substrates (also ceramic) to make them suitable for bonding all types of floor covering, from 1 to 3 mm of thickness.

**Planiprep Fast Track**
Ultra rapid-drying fine textured thixotropic cementitious skimming compound, suitable for levelling and skimming new and existing internal substrates (from a feather-edge up to a maximum of 3 mm) to make them suitable for bonding all types of floor covering very quickly (2 hours), including resilients and textiles.

**Planiprep Remove 4 LVT**
Ready-to-use grout smoother for loose-lay LVT easy to remove without leaving any residual. This product is used to level off and smooth over (down to a feather edge in layers up to 2 mm thick) existing internal ceramic and stone surfaces. It fills joints and gaps between tiles and forms a fine, smooth finish suitable for loose-lay LVT tiles and planks.

**Planopur**
Two-component, self-levelling, flexible, polyurethane levelling compound for all types of substrate, especially the deformable type.
**Ultraplan**
Self-levelling, ultra quick-hardening smoothing compound for thicknesses from 1 to 10 mm.

**Technical Data:**
- **Where to use:** Internal floors for ceramic, natural stone, resilient and wooden coverings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** From 1 to 10 mm.
- **Set to light foot traffic:** Approx. 3 hours.
- **Waiting time before laying:** 3-4 hours for stable and not sensitive to moisture ceramic tiles and natural stone, 12 hours for resilient and wood coverings.
- **Application:** Trowel, rake or pump.
- **EMICODE:** EC1 Plus - Very low emission.
- **Colour:** Pinkish grey.
- **Storage:** 12 months.
- **Consumption:** 1.7 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Ultraplan Contract**
Self-levelling, ultra quick-hardening smoothing compound ideal for large sites and retail for thicknesses from 1 to 10 mm.

**Technical Data:**
- **Where to use:** Internal floors and walls, for ceramic, natural stone, resilient and wooden coatings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** From 1 to 10 mm.
- **Set to light foot traffic:** Approx. 3 hours.
- **Waiting time before laying:** 3-4 hours for stable and not sensitive to moisture ceramic tiles and natural stone, 12 hours for resilient and wood coverings.
- **Application:** Trowel, rake or pump.
- **EMICODE:** EC1 Plus - Very low emission.
- **Colour:** Pinkish grey.
- **Storage:** 12 months.
- **Consumption:** 1.6 kg/m² per mm of thickness.
- **Packaging:** 23 kg bags.

**Ultraplan Eco**
Self-levelling, ultra quick-hardening smoothing compound for thicknesses from 1 to 10 mm.

**Technical Data:**
- **Where to use:** Internal floors for ceramic, natural stone, resilient and wooden coverings.
- **Workability time:** 20-30 minutes.
- **Thickness applied:** From 1 to 10 mm.
- **Set to light foot traffic:** Approx. 3 hours.
- **Waiting time before laying:** 3-4 hours for stable and not sensitive to moisture ceramic tiles and natural stone, 12 hours for resilient and wood coverings.
- **Application:** Trowel, rake or pump.
- **EMICODE:** EC1 Plus - Very low emission.
- **Colour:** Pinkish grey.
- **Storage:** 12 months.
- **Consumption:** 1.6 kg/m² per mm of thickness.
- **Packaging:** 23 kg bags.

**Ultraplan Fast Track**
Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm. It is suitable for restoring resilient floor which have to be ready for use in quick times.

**Technical Data:**
- **Consistency:** Fine powder.
- **Where to use:** Internal floors, for resilient and coverings coatings.
- **Pot life:** 10-15 minutes.
- **Thickness applied:** 1-10 mm.
- **Set to light foot traffic:** Approx. 1 hour.
- **Waiting tile before bonding flooring:** 2 hours for ceramic tiles, natural stone, resilient and wood coverings.
- **Application:** Trowel or rake.
- **EMICODE:** EC1 Plus - Very low emission.
- **Colour:** Grey.
- **Storage:** 12 months.
- **Consumption:** 1.6 kg/m² per mm of thickness.
- **Packaging:** 23 kg bags.
1. SCREEDS AND SMOOTHING COMPOUNDS

**Ultraflan Maxi**
Self-levelling, ultra quick-hardening smoothing compound for thicknesses from 3 to 40 mm.

**Technical Data:**
- **Where to use:** internal floors for ceramic, natural stone, resilient and wooden coatings.
- **Workability time:** 30-40 minutes.
- **Thickness applied:** from 3 to 40 mm.
- **Set to light foot traffic:** approx. 3-12 hours (depending on thickness).
- **Waiting time before laying:** from 3-4 to 12 hours for ceramic and natural stone, from 12 to 72 hours for resilient and wood coverings (depending on thickness).
- **Application:** trowel or pump.
- **EMICODE:** EC1 Plus - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Consumption:** 1.7 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Ultraflan Renovation**
Self-levelling fibre-reinforced rapid-hardening smoothing compound applied in layers 3 to 40 mm thick. Particularly suitable for levelling off existing substrates, even wooden substrates.

**Technical Data:**
- **Areas of use:** internal floors for installing ceramic, stone, resilient and wooden flooring.
- **Workability time:** 30-40 minutes.
- **Thickness applied:** 3 to 40 mm.
- **Set to foot traffic:** approx. 3-12 hours (depending on thickness).
- **Waiting time before installation:** from 3-4 to 12 hours for ceramic and stable and not sensitive to moisture stone; from 12 to 72 hours for resilient and wood (depending on thickness).
- **Application:** spreader or pump.
- **EMICODE:** EC1 Plus - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Consumption:** 1.8 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

1.4 Products for levelling substrates

**Adesilex P4**
Quick-hardening cementitious levelling compound for internal and external surfaces.

**Technical Data:**
- **Where to use:** on floors for ceramic and natural stone coatings.
- **Workability time:** approx. 60 minutes.
- **Thickness applied:** from 3 to 20 mm.
- **Set to light foot traffic:** approx. 4 hours.
- **Application:** N° 6 or 10 rounded notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Consumption:** 4-10 kg/m².
- **Packaging:** 25 kg bags.

**Nivoplan**
Smoothing mortar for internal and external walls and ceilings for thicknesses from 2 to 20 mm.

**Technical Data:**
- **Where to use:** on walls for ceramic and natural stone coatings.
- **Workability time:** 2-3 hours.
- **Thickness applied:** from 2 to 20 mm.
- **Waiting time before laying ceramic and natural stone:** 24 hours, according to thickness.
- **Application:** trowel.
- **Colours:** grey and white.
- **Storage:** 12 months.
- **Consumption:** 1.4 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.
**Planitop Fast 330**

Quick-setting, fibre-reinforced cementitious levelling mortar for internal and external floors and walls, applied in layers from 3 to 30 mm to even out irregularities.

**TECHNICAL DATA:**
- **Where to use:** internal walls and floors for ceramic and natural stone coatings.
- **Workability time:** approximately 20 minutes.
- **Thickness applied:** from 3 to 30 mm.
- **Waiting time before laying ceramic and natural stone:** 4 hours, varies according to the surrounding temperature.
- **Application:** smooth trowel.
- **EMICODE:** EC1 - very low emission.
- **Colour:** grey.
- **Storage:** 12 months.
- **Consumption:** 1.45 kg/m² per mm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
PRODUCTS FOR SOUNDPROOFING
2. PRODUCTS FOR SOUNDPROOFING

**Mapesilent Band R**
Closed-cell, expanded polyethylene adhesive band applied to perimeter walls and around the edges of elements which pass through screeds to avoid the formation of acoustic bridges, designed to be easily applied in a L-shape. The product can be used in combination with all the products from the MAPESILENT range. Available in two different heights depending on the total thickness of floating screed.

**TECHNICAL DATA:**
Format: light blue roll.
Height:
- 100 mm (+ 50 mm base);
- 160 mm (+ 50 mm base).
Thickness: 5 mm.
Length: 50 m.
Packaging: one pack with 4 rolls.

**Mapesilent Comfort**
Dry soundproofing system for floating screeds made from high density, closed-cell foam polyethylene sandwiched to a special protective film.

**TECHNICAL DATA:**
Thickness: 6 mm.
Compressibility (reduction in thickness when under load for a period of time): < 8%.
Thermal conductivity - \( \lambda \): 0.04 W/mK.
Water vapour diffusion resistance factor - \( \mu \): > 2000.
Dynamic stiffness for calculation purposes (\( S' \)): 50 MN/m².
Calculated reductions of impact noise from footsteps (\( \Delta Lw \)): 23.5 dB.
Calculated noise level index of impact noise from footsteps (\( L'n,w \)): 58 dB (*).
Measured noise level index of impact noise from footsteps (\( L'n,w \)): 57 dB (*).

(*): Calculations and testing carried out on a 20+4 cm thick brick/cement floor slab, a 10 cm levelling layer over the system, a 5 cm thick cementitious screed and ceramic flooring.

**Mapesilent Panel**
Tiles with a bitumen and special polymer-based elasto-plastomeric membrane with polyester reinforcement, sandwiched to a resilient layer of polyester fibre.

**TECHNICAL DATA:**
Tensile strength:
- longitudinal: 700 N/50 mm;
- transversal: 500 N/50 mm.
Impact strength: 900 mm.
Resistance to static perforation: 15 kg.
Impermeability to water: > 100 kPa.
Apparent dynamic stiffness (\( S't \)): 10 MN/m².
Dynamic stiffness for calculation purposes (\( S' \)): 21 MN/m².
Reduction of noise from footsteps when installed (\( \Delta Lw \)): 42 dB.
Thermal resistance (\( R \)): 0.313 m²K/W.
Nominal thickness: 13 mm.
Format: 1000 mm x 1000 mm tiles.
Weight: 5 kg/m².
Packaging: pallets containing 75 m².

**Mapesilent Roll**
Sheets with a bitumen and special polymer-based elasto-plastomeric membrane with polyester reinforcement sandwiched to a layer of resilient polyester fibre coated with blue, non-woven polypropylene fabric with a 5 cm wide self-adhesive border along the sides.

**TECHNICAL DATA:**
Tensile strength:
- longitudinal: 700 N/50 mm.
- transversal: 500 N/50 mm.
Impact strength: 900 mm.
Resistance to static perforation: 15 kg.
Impermeability to water: > 100 kPa.
Apparent dynamic stiffness (\( S't \)): 9 MN/m².
Dynamic stiffness for calculation purposes (\( S' \)): 21 MN/m².
Reduction of noise from footsteps when installed (\( \Delta Lw \)): 37 dB.
Thermal resistance (\( R \)): 0.145 m²K/W.
Nominal thickness: 8 mm.
Format: 10 x 1 m rolls with a 5 cm border along the sides.
Weight: 1.8 kg/m².
Packaging: pallets containing 160 m².
**Mapesilent Tape**
Adhesive sealing tape made in closed-cell expanded polyethylene, ideal for sealing rolls and panels from the MAPESILENT range. It prevents the formation of acoustic bridges ensuring the seamlessness of the soundproofing system.

**TECHNICAL DATA:**
- **Format:** white roll.
- **Width:** 100 mm.
- **Thickness:** 3 mm.
- **Length:** 25 m.
- **Packaging:** 12 rolls box.

**Mapesonic CR**
Soundproofing mat in sheets of rubber and cork applied on substrates before installing ceramic, stone, resilient and multi-layered wooden floors.

**TECHNICAL DATA:**
- **Thickness:** 2 mm and 4 mm.
- **Format:**
  - 20 x 1 m sheets (2 mm thick);
  - 10 x 1 m sheets (4 mm thick).
- **Reduction of noise from footsteps EN ISO 140-8:** 10 dB.
- **Density (kg/m³):** 700.
- **Colours:** brown-black.
- **Tensile strength EN ISO 1798 (N/mm²):** 0.6.
- **Elongation at failure EN ISO 1798 (%):** 20.
- **Reduction of noise from footsteps EN ISO 10140-3:** 10 dB.
- **Certified:** Technical Report N. PX21361-1.
- **EMICODE:** EC1 Plus - very low emission.

**Mapesonic GD 4 LVT**
Low-thickness, high-density, soundproofing system, for LVT reinforced with glass fibre mesh, designed to block and reduce transmission of foot step noise through floors.

**TECHNICAL DATA:**
- **Thickness:** 1.5 mm.
- **Size:** 10 m x 1 m sheets.
- **Weight:** 1.1 kg/m².
- **Dimensional stability (ISO 23999):** <0.2%.
- **Reduction of noise from footsteps (ISO 10140-1):** 16 dB (for 2.5 mm thick LVT).
- **EMICODE:** EC1 Plus - very low emission.
- **Packaging:** 10 x 1 m (10 m²) rolls.

**Mapesonic SA 4 LVT**
Self-adhesive, low-thickness, high-density, soundproofing system, for LVT reinforced with glass fibre mesh, designed to block and reduce transmission of foot step noise through floors.

**TECHNICAL DATA:**
- **Thickness:** 1.7 mm.
- **Size:** 10 m x 1 m sheets.
- **Weight:** 1.1 kg/m².
- **Dimensional stability (ISO 23999):** <0.2%.
- **Reduction of noise from footsteps (ISO 10140-1):** 16 dB (for 2.5 mm thick LVT).
- **EMICODE:** EC1 Plus - very low emission.
- **Packaging:** 10 x 1 m (10 m²) rolls.
**Mapesonic Strip**

Adhesive strip made in closed cell expanded polyethylene to be applied around the edge of flooring and any pillars passing through the flooring to prevent the formation of acoustic bridges along the perimeter of the walls, specific for use with MAPESONIC CR to ensure the seamlessness of the soundproofing system.

**TECHNICAL DATA:**
- **Format:** grey roll.
- **Width:** 50 mm.
- **Thickness:** 3 mm.
- **Length:** 11 m.
- **Packaging:** 4 rolls box.
PRIMERS, BONDING PROMOTERS, CONSOLIDATING AND WATERPROOFING PRODUCTS
### Biblock
Two-component, epoxy curing product in water dispersion for concrete with consolidating and anti-dust properties. Suitable for not absorbent substrates before the application of TRIBLOCK P.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick liquid; comp. B: liquid.
- **Colours:** comp. A: straw yellow; comp. B: amber.
- **Workability time:** 30-40 minutes.
- **Storage:** 24 months.
- **Application:** brush, roller or spray.
- **Consumption:** 0.10-0.15 kg/m².
- **Packaging:** 2.5 kg + 2.5 kg drums.

### Eco Prim Grip
Ready-to-use bonding promoter and primer made from synthetic acrylic resin and silica inerts with a very low emission of volatile organic compounds (VOC) for render, smoothing and levelling compounds and adhesives for ceramic tiles.

**TECHNICAL DATA:**
- **Consistency:** creamy liquid.
- **Colour:** grey.
- **Waiting time before applying render:** 15-20 minutes.
- **Waiting time before applying smoothing compounds:** 30 minutes.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** roller or brush.
- **Consumption:** 0.20-0.30 kg/m².
- **Packaging:** 10 kg and 5 kg drums.

### Eco Prim PU 1K
One-component, solvent-free, moisture curing polyurethane primer with a very low emission level of volatile organic compounds (VOC) for consolidating and waterproofing cementitious screeds.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** brown.
- **Set to light foot traffic:** after 9-10 hours.
- **Waiting time before laying parquet using reactive adhesives:** min. 24 hours, max. 3 days.
- **Waiting time before laying parquet or smoothing layer on surfaces sprinkled with quartz:** 36 hours.
- **EMICODE:** EC1 - very low emission.
- **Storage:** 12 months.
- **Application:** roller or brush.
- **Consumption:** 0.2-0.4 kg/m².
- **Packaging:** 10 kg drums.

### Eco Prim PU 1K Turbo
One-component, solvent-free, moisture curing, rapid-drying polyurethane primer with a very low emission level of volatile organic compounds (VOC) for consolidating and waterproofing cementitious screeds.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** brown.
- **Set to light foot traffic:** 30-40 minutes.
- **Waiting time before laying parquet using reactive adhesives:** min. 2 hours, max. 24 hours.
- **Waiting time before laying parquet or smoothing layer on surfaces sprinkled with quartz:** 4 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** roller or brush.
- **Consumption:** 0.2-0.4 kg/m² per coat.
- **Packaging:** 10 kg drums.
### Eco Prim T

**Acrylic primer with a very low emission of volatile organic compounds (VOC)** for absorbent and non-absorbent substrates also with residual of old adhesives. Suitable also as adhesion promoter for levelling compounds onto substrates treated with epoxy or polyurethane primers.

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Colour:** white.
- **Dilution rate:** not diluted on non-absorbent surfaces, 1 : 1 or 1 : 2 on absorbent surfaces.
- **Waiting time before applying smoothing compounds:** 1-5 hours depending on the surrounding conditions and the absorption of the substrate.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** roller or brush.
- **Consumption:** 0.10–0.20 kg/m².
- **Packaging:** 5 and 20 kg tanks.

### Eco Prim T Plus

**Acrylic primer in water dispersion with very low emission of volatile organic compounds (VOC)** for absorbent and non-absorbent substrates also with residual of old adhesives. Suitable also as adhesion promoter for levelling compounds onto substrates treated with epoxy or polyurethane primers.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** light blue.
- **Dilution rate:** not diluted on non-absorbent substrates, 1 : 1 or 1 : 2 on absorbent substrates.
- **Waiting time before applying the adhesive or the smoothing compound over:** from 1 to 5 hours depending on the surrounding conditions and the absorbency of the substrate.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Application:** with a brush or a roller.
- **Consumption:** 0.10–0.20 kg/m².
- **Packaging:** 20 and 5 kg tanks.

### Eco Prim VG

**Ready to use acrylic primer in water dispersion with very low emission level of volatile organic compounds (VOC).** Suitable for preparing absorbent or porous substrates prior to installing self-adhesive and tack-dry loose lay LVT or MAPESONIC SA 4 LVT.

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Application temperature range:** from +5°C to +35°C.
- **Drying time:** 15–20 minutes.
- **Waiting time before applying the adhesive or the smoothing compound over:** 1-3 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** roller or brush.
- **Consumption:** 0.10–0.20 kg/m² depending on the porosity of the substrate and on how it is applied.
- **Packaging:** 1, 5 and 10 kg tanks.

### Eporip

**Two component solvent-free epoxy adhesive for construction joints and for monolithic sealing of cracks in screeds.**

**TECHNICAL DATA:**
- **Consistency:** comp. A: fluid paste; comp. B: fluid paste.
- **Colours:** comp. A: black; comp. B: white.
- **Setting time:** 24 hours.
- **Workability time:** 60 minutes (at +23°C).
- **Open time:** 5 hours (at +16°C).
- **Storage:** 24 months.
- **Application:** brush, trowel or by pouring.
- **Consumption:** 1.35 kg/dm³.
- **Packaging:**
  - 10 kg kits: (7.5 kg of component A, 2.5 kg of component B).
  - 2 kg kits: (1.5 kg of component A, 0.5 kg of component B).
### Malech

Water-based acrylic undercoat and bonding promoter with a smooth finish.

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Colour:** transparent.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.01.
- **Dry solids content (EN ISO 3251) (%):** approx. 15.
- **Dilution rate:** ready-to-use; 30-50% of water for surfaces with low absorbency.
- **Waiting time before applying other products:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Consumption:** 0.10-0.15 (kg/m²).
- **Packaging:** 2 and 10 kg.

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### Livigum

Synthetic-resin based admixture in water dispersion to be added to cementitious mortar and smoothing compounds to improve mechanical performances and adhesion.

**Mixing ratio:**
1. Preparation of skim layers and render up to 10 mm thick. Dilute LIVIGUM with water at a ratio of 1:2. Use this solution to mix the aggregates and cement.
2. Preparation of skim layers and render up to 20 mm thick. Dilute LIVIGUM with water at a ratio of 1:3. Use this solution to mix the aggregates and cement.
3. Admixture for PIANOCEM M. Partially replace the mixing water with 1.5-2 kg of LIVIGUM every 25 kg bag.
4. Primer for cementitious substrates. Dilute 1 part of LIVIGUM with 3-5 parts of water, depending on the absorption of the substrate.

**Consumption:** 60-90 g/m² per mm of skimming; 1.5-2 kg bag of PIANOCEM M.

**Packaging:** 25 kg tanks.

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### Eporip SCR

Two-component, rapid-hardening, silicate-urethane resin for sealing cracks and joints and carrying out small repairs.

**Consistency:** comp. A: fluid paste; comp. B: fluid paste.

**Colours:** comp. A: grey; comp. B: white.


**Setting time:** 20-30 minutes.

**Workability time:** 7 minutes.

**Storage:** 12 months.

**Application:** pouring.

**Consumption:** 1.7 kg per dm³ of filled cracks.

**Packaging:** 508 g metal cans (component A: 500 g; component B: 8 g).

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### Eporip Turbo

Two-component, quick-hardening polyester resin for sealing of cracked screeds and for little repair works.

**Consistency:** comp. A: liquid; comp. B: liquid.


**Setting time:** 45 mins.

**Workability time:** 10-12 mins.

**Storage:** 12 months.

**Application:** extruded through nozzle on can.

**Packaging:** boxes containing 6 (A+B) kits (comp. A: 300 ml; comp. B: 300 ml).
**Mapecoat I 600 W**
Two-component transparent epoxy primer in water dispersion.

**TECHNICAL DATA:**
- **Consistency of mix:** fluid.
- **Colour of mix:** opaline.
- **Workability time:** 2-3 h.
- **Dust dry at +23°C and 50% R.H.:**
  - 3-4 h (first coat);
  - 6-8 h (second coat).
- **Final hardening time:** 7 days.
- **Application temperature range:** from +8°C to +35°C.
- **Storage:** 24 months in its original sealed packaging.
- **Application:** roller, spray or airless spray.
- **Consumption:** 300-500 g/m², depending on the absorbency rate of the diluted product.
- **Packaging:** 5.9 kg kits and 11.8 kg kits (A + B).

**Mapecoat I 600 W Lucido**
Two-component, shiny, transparent epoxy primer in water dispersion.

**TECHNICAL DATA:**
- **Consistency of mix:** fluid.
- **Colour of mix:** opaline.
- **Workability time:** 2-3 h.
- **Dust dry at +23°C and 50% R.H.:**
  - 3-4 h (first coat);
  - 6-8 h (second coat).
- **Final hardening time:** 7 days.
- **Application temperature range:** from +8°C to +35°C.
- **Storage:** 24 months in its original sealed packaging.
- **Application:** roller, spray or airless spray.
- **Consumption:** 300-500 g/m², depending on the absorbency rate of the diluted product.
- **Packaging:** 5.9 kg kits (A + B).

**Planicrete**
Synthetic rubber latex to improve adhesion and performances of cement mixes and prepare bonding slurries for screeds.

**TECHNICAL DATA:**
- **Consistency of mix:** fluid.
- **Colour of mix:** opaline.
- **Workability time:** 2-3 h.
- **Dust dry at +23°C and 50% R.H.:**
  - 3-4 h (first coat);
  - 6-8 h (second coat).
- **Final hardening time:** 7 days.
- **Application temperature range:** from +8°C to +35°C.
- **Storage:** 24 months in its original sealed packaging.
- **Application:** roller, spray or airless spray.
- **Consumption:** 300-500 g/m², depending on the absorbency rate of the diluted product.
- **Packaging:** 5, 10 and 25 kg tanks and 12x1 kg packages.

**Primer 3296**
Acrylic primer in water dispersion with high penetration, consolidating and anti-dust properties for screeds.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** opaline.
- **Dilution ratio:** as is, 1: 1 or 1:2 according to the absorption of the substrate.
- **Drying time:** 1-5 days.
- **Waiting time before laying with vinyl adhesive:** when dry.
- **Storage:** 12 months.
- **Application:** brush, roller or watering can.
- **Consumption:** 0.1-0.5 kg/m².
- **Packaging:** 5 and 10 kg drums.
3. PRIMERS, BONDING PROMOTERS, CONSOLIDATING AND WATERPROOFING PRODUCTS

**Mapeproof Primer**

PVDC based primer in water dispersion for suppressing residual moisture up to 4.5% (95% R.H.) in cementitious screeds.

**TECHNICAL DATA:**
- Consistency: liquid.
- Colour: green.
- Number of recommended coats: apply in a minimum of two coats. With particularly low absorbent or finished screeds with a tight surface, first apply a dilute coat of MAPEPROOF PRIMER (1:1 with water), allow to dry (approx. 20 mins) and proceed with the others 2 coats.
- Waiting time between the first and second coat: 15-30 minutes.
- Waiting time before applying in the levelling compound: After complete drying of the primer (approx. 2-5 hours, max. 12 hours).
- Storage: 12 months.
- Application: roll or brush.
- Consumption: approx. 250 g/m² as a two coats application (coverage 3 m²/kg).
- Packaging: 10 kg tanks.

**Primer BI**

Synthetic resin primer in solvent, specific for improving adhesion of polyurethane coating products (from the PURTOP range) on existing bituminous membranes.

**TECHNICAL DATA:**
- Colour: transparent.
- Consistency: fluid liquid.
- Density according to EN ISO 2811-1 (g/cm³): 0.96.
- Dry solids content (%): 10.
- Storage: 24 months in its original sealed packaging.
- Application temperature range: from +5°C to +35°C.
- Ready for painting over: 2-4 hours.
- Drying time: 5-6 hours at +20°C.
- Consumption: 0.20 kg/m² per coat, depending on the type of the substrates.
- Packaging: 5+5 kg drums.

**Primer EP**

Two-component epoxy primer in solvents for consolidating and waterproofing cementitious screeds and industrial floors.

**TECHNICAL DATA:**
- Minimum waiting time: 24 hours according to the porosity of the substrate.
- Consistency: liquid.
- Colour: transparent.
- Workability time: 4-5 hours.
- Storage: 24 months.
- Application: brush, roller or watering can.
- Consumption: 0.5-0.7 kg/m².
- Packaging: 5+5 kg drums.

**Primer EP Rustop**

Two-component epoxy primer for metal surfaces.

**TECHNICAL DATA:**
- Colour of mix: white.
- Consistency of mix: liquid.
- Dry substances content (%): 70.
- Density of mix (kg/m³): 1,100.
- Viscosity of mix (mPa*s): 500 (# 3 – 50 rpm).
- Workability time: 15-20 minutes at +20°C.
- Surface temperature: at least +10°C.
- Pot life: 6 h at +20°C.
- Varnishing: after 6-8 h at +20°C.
- Dusty dry: after 2 h at +20°C.
- Final hardening time: 24 h.
- Storage: 12 months in its original sealed packaging.
- Application: by brush, roller or airless spray system.
- Consumption: 0.2 kg/m².
- Packaging: 5 kg kits (A + B).
**Primer M**

One-component, solvent-free primer for polyurethane sealants, for use on absorbent and non-absorbent surfaces.

TECHNICAL DATA:
- Consistency: liquid.
- Colour: brown.
- Application temperature: from +5°C to +35°C.
- Drying time: 40 minutes.
- Storage: 12 months.
- Application: brush.
- Consumption: 5-10 g/m (for a 1 cm deep joint).
- Packaging: 250 g bottles, 2 kg metallic drums.

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**Primer KL**

Adhesion promoter in solvent for two-component epoxy, epoxy-polyurethane and polyurethane adhesives and thinner for PRIMER MF.

TECHNICAL DATA:
- Consistency: liquid.
- Colour: black.
- Drying time: minimum 2 hours.
- Electrical resistance: 50,000 ohm.
- Storage: 24 months. Protect from frost.
- Application: brush.
- Consumption: 0.1-0.15 kg/m².
- Packaging: 10 kg drums.

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**Primer G**

Synthetic resin primer in water dispersion with very low emission of volatile organic compounds (VOC).

TECHNICAL DATA:
- Consistency: liquid.
- Colour: light blue.
- Dilution rate: from 1:1 to 1:3 with water according to the absorption of the substrate.
- Drying time: 2 hours according to the dilution rate and the absorption of the substrate.
- Application: brush or roller.
- EMICODE: EC1 Plus - very low emission.
- Storage: 24 months. Protect from frost.
- Consumption: 0.1-0.2 kg/m² according to use.
- Packaging: 5, 10 and 25 kg drums and 12x1 kg boxes.

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**Primer G Conductive**

Dark-coloured, solvent-free conductive synthetic resin primer in water dispersion.

TECHNICAL DATA:
- Consistency: liquid.
- Colour: black.
- Drying time: minimum 2 hours.
- Electrical resistance: 50,000 ohm.
- Storage: 24 months. Protect from frost.
- Application: brush.
- Consumption: 0.1-0.15 kg/m².
- Packaging: 10 kg drums.

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**Primer KL**

Adhesion promoter in solvent for two-component epoxy, epoxy-polyurethane and polyurethane adhesives and thinner for PRIMER MF.

TECHNICAL DATA:
- Consistency: liquid.
- Colour: pinkish transparent.
- Drying time: 5 minutes.
- Storage: 12 months.
- Application: cotton rag.
- Consumption: 0.3-0.4 kg/m².
- Packaging: boxes of 12x0.8 litre bottles and 8 kg metal drums.
### Primer MF
Two-component, solvent-free epoxy primer for consolidating and waterproofing cementitious substrates.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent yellow.
- **Waiting time before laying floors or applying smoothing compound:** 24-48 hours according to the surrounding temperature.
- **Workability time:** 90 minutes.
- **Storage:** 24 months.
- **Application:** brush or roller.
- **Consumption:** 0.20-0.40 kg/m².
- **Packaging:** 1 kg (A+B) and 6 kg (A+B) units.

### Primer MF EC Plus
Two-component, solvent-free, low-viscosity, epoxy primer with very low emission of volatile organic compounds for consolidating and waterproofing cementitious substrates.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent yellow.
- **Waiting time before laying floors or applying smoothing compound:** 24 hours.
- **Workability time:** 40 minutes.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Application:** roller, brush or flat trowel.
- **Consumption:** 0.2-0.3 kg/m² per coat.
- **Packaging:** 5 kg units (A+B).

### Primer P
One-component primer for sealants applied on plastics.

**TECHNICAL DATA:**
- **Application of sealant:** after 20’.
- **Colours:** transparent.
- **Application:** brush.
- **Consumption:** 5-10 g/m (for a 1 cm deep joint).
- **Packaging:** 150 g canisters.

### Primer P1
One-component solvent-based primer for polyurea coatings (from the PURTOP line) on plastic surfaces such as PVC.

**TECHNICAL DATA:**
- **Consistency:** transparent liquid.
- **Colour:** yellowish.
- **Density (g/cm³):** 0.86.
- **Dry solids content (%):** 10.
- **Viscosity (mPa·s):** approx. 33 (No. 1 rotor, 100 rpm).
- **Application temperature:** +5°C to +35°C.
- **Recoat time (mins.):** 30 to 60.
- **Consumption:** 0.1-0.2 kg/m².
- **Packaging:** 50 kg tanks.
**Primer P2**
One-component solvent-based primer for polyurea coatings (from the PURTOP line) on plastic surfaces such as TPO.

**Primer P3**
Two-component solvent-based polyurethane primer for products from the PURTOP line.

**Primer PU60**
Moisture curing polyurethane resin for consolidating and waterproofing damp screeds.

**Primer S**
Waterproofing primer in water dispersion.

**TECHNICAL DATA:****
- **Consistency:** transparent liquid.
- **Colour:** yellowish.
- **Density (g/cm³):** 0.89.
- **Dry solids content (%):** 10.
- **Viscosity (mPa·s):** approx. 22 (No. 1 rotor, 100 rpm).
- **Application temperature:** +5°C to +35°C.
- **Recoat time (mins.):** 30 to 60.
- **Consumption:** 0.1-0.2 kg/m².
- **Packaging:** 50 kg tanks.

**TECHNICAL DATA:**
- **Consistency:** comp. A liquid; comp. B liquid.
- **Colour:** comp. A transparent yellow; comp. B dark brown.
- **A/B ratio (in weight):** 100/24.
- **Application temperature:** +5°C to +35°C.
- **Workability time (mins.):** approx. 60.
- **Consumption:** approx. 50-100 g/m² as adhesion promoter for polyurethane finishes; 150-200 g/m² as primer for bitumen membranes.
- **Packaging:** 5+1.20 kg units (A+B); 1.24 kg units.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent yellow.
- **Application temperature:** +5°C to +35°C.
- **Recoat time (mins.):** approx. 60.
- **Consumption:** 0.1-0.2 kg/m².
- **Packaging:** 5 kg bottles.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** pink.
- **Waiting time between each coat:** 20-30 minutes.
- **Waiting time before laying coating:** approx. 12 hours.
- **Application:** brush or roller.
- **Storage:** 12 months. Protect from frost.
- **Consumption:** 0.1 kg/m² per coat.
- **Packaging:** 5 kg bottles.
3. PRIMERS, BONDING PROMOTERS, CONSOLIDATING AND WATERPROOFING PRODUCTS

**Primer SN**
Two-component epoxy primer with fillers.
May be coloured with MAPECOLOR PASTE.

**TECHNICAL DATA:**
- **Mixing ratio:** component A : component B = 80 : 20.
- **Colour of mix:** neutral.
- **Consistency of the mix:** thick fluid.
- **Density of mix (kg/m³):** 1500.
- **Viscosity of the mix (mPa·s):** 1,100 ± 100 (# 3 - rpm 50).
- **Pot life:** 30 min.
- **Application temperature range:** from +8°C to +35°C.
- **Dust dry at +23°C and 50% R.H.:** 6 hours.
- **Set to light foot traffic at +23°C and 50% R.H.:** 24 hours.
- **Final setting time:** 7 days.
- **Storage:** 24 months in its original sealed packaging.
- **Application:** flat trowel or flat rake.
- **Consumption:** 0.3-0.7 kg/m² per coat, depending on the absorbency and characteristics of the substrate.
- **Packaging:** 20 kg kits (A+B); 5 kg kits (A+B).

**Profas**
Water-based, solvent-free consolidator with high penetration properties for cementitious substrates.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent.
- **Drying time:** according to the absorbency of the substrate.
- **Storage:** 24 months. Protect from frost.
- **Application:** brush, flat brush or roller.
- **Consumption:** 0.5-0.7 kg/m².
- **Packaging:** 25 kg tanks.

**Quartz 1.2**
Calibrated silica sand to improve the bond on resin or epoxy primers.

**TECHNICAL DATA:**
- **Colours:** grey - beige.
- **Grain size:** 0.7-1.2.
- **Packaging:** 25 kg bags.

**Thinner for adhesives**
N.B. Packaging approved according to ADR as specified in Ministerial Decree 22/2/1990.
**Thinner PU**
Thinners for PRIMER PU60.

**Triblock P**
Three-component epoxy-cementitious primer for non-absorbent waterproofing damp substrates.

**TECHNICAL DATA:**
- **Consistency:** comp. A liquid; comp. B liquid; comp. C powder.
- **Colours:** comp. A white; comp. B white; comp. C white.
- **Workability time:** 30-40 minutes.
- **Waiting time between first and second coat:** 4-6 hours.
- **Waiting time before laying floors or applying smoothing compound:** 18 hours.
- **Maximum waiting time before laying floors or applying smoothing compound:** 7 days.
- **Storage:** 24 months.
- **Application:** brush or roller.
- **Consumption:** 0.5 kg/m².
- **Packaging:** 5 kg drums (A+B+C).

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent.
- **Inflammable:** yes.
- **Storage:** 12 months.
- **Consumption:** 0.25-1 litre per litre of PRIMER PU60 according to dilution rate considered.
- **Packaging:** 9 kg drums.
ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL
### 4. ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL

#### 4.1 Hydraulic binder based adhesives

| **Adesilex P4** | **Technical Data:**  
| High-performance, self-buttering, quick-setting grey cementitious adhesive for ceramic tiles and stone material (thickness of adhesive from 3 to 20 mm).  
| **N.B.** May also be used for smoothing internal and external surfaces.  
| **Where to use:** Floors only.  
| **Pot life of mix:** More than 60 minutes.  
| **Open time:** 20 minutes.  
| **Waiting time before grouting:** 4 hours.  
| **Set to light foot traffic:** Approx. 4 hours.  
| **Ready for use:** Approx. 24 hours.  
| **Colour:** Grey.  
| **Application:** N° 6 or 10 notched rounded trowel.  
| **EMICODE:** EC1 Plus - very low emission.  
| **Storage:** 12 months.  
| **Consumption:** 4-10 kg/m².  
| **Packaging:** 25 kg bags.  

| **Adesilex P9** | **Technical Data:**  
| High-performance cementitious adhesive with no vertical slip and extended open time for ceramic tiles and stone materials (layer of adhesive up to 5 mm). The white version has very high white balance and excellent workability.  
| **Pot life of mix:** More than 8 hours.  
| **Open time:** ≥ 30 minutes.  
| **Waiting time before grouting:**  
| – on walls: 4-8 hours;  
| – on floors: 24 hours.  
| **Set to light foot traffic:** Approx. 24 hours.  
| **Ready for use:** Approx. 14 days.  
| **Colours:** Grey and white.  
| **Application:** N° 4, 5 or 6 notched trowel.  
| **EMICODE:** EC1 Plus - very low emission.  
| **Storage:** 12 months (25 kg bags), 24 months (5 kg bags).  
| **Consumption:** 2-5 kg/m².  
| **Packaging:** 25 kg bags and 4x5 kg boxes.  

| **Adesilex P9 Express** | **Technical Data:**  
| High performance, rapid-setting cementitious adhesive with extended open time for bonding ceramic tiles.  
| **Pot life of mix:** 45 minutes.  
| **Open time:** 20 minutes.  
| **Waiting time before grouting:**  
| – walls: 4 hours;  
| – floors: 4 hours.  
| **Set to foot traffic:** Approx. 4 hours.  
| **Ready for service:** Approx. 24 hours.  
| **Colours:** Grey and white.  
| **Application:** N° 4, 5, 6 or 10 notched spreader.  
| **EMICODE:** EC1 Plus - very low emission.  
| **Storage:** 12 months.  
| **Consumption:** 2.5-5 kg/m².  
| **Packaging:** 25 kg bags.  

| **Adesilex P10** | **Technical Data:**  
| High-performance, white cementitious adhesive with no vertical slip and extended open time for glass mosaic, ceramic and marble coatings (thickness of adhesive up to 5 mm).  
| **Pot life of mix:** More than 8 hours.  
| **Open time:** ≥ 30 minutes.  
| **Waiting time before grouting:**  
| – on walls: 4-8 hours;  
| – on floors: 24 hours.  
| **Set to foot traffic:** Approx. 24 hours.  
| **Ready for service:** Approx. 14 days.  
| **Colours:** Grey and white.  
| **Application:** N° 4, 5 or 6 notched spreader.  
| **EMICODE:** EC1 Plus - very low emission.  
| **Storage:** 12 months.  
| **Consumption:** 2-5 kg/m².  
| **Packaging:** 25 kg bags and 4x5 kg Alupack boxes.  

**Elastorapid**
Two-component, high-performance, highly-deformable, quick-setting and drying cementitious adhesive with no vertical slip and extended open time for ceramic tiles and stone material (thickness of adhesive up to 10 mm).

**TECHNICAL DATA:**
- Pot life of mix: 60-75 minutes.
- Open time: ≥ 30 minutes.
- Waiting time before grouting: 3 hours.
- Set to light foot traffic: approx. 2-3 hours.
- Ready for use: approx. 24 hours (3 days for basins and swimming pools).
- Deformability according to EN 12004: S2 - highly deformable.
- Colours: grey and white.
- Application: N° 4, 5, 6 or 10 notched trowel.
- Protect from frost.
- Consumption: 3-8 kg/m².
- Packaging:
  - ELASTORAPID white: 31.25 kg kit
  - ELASTORAPID grey: 31.25 kg kit

**Granirapid**
Two-component, high-performance, deformable, quick-setting and drying cementitious adhesive for ceramic tiles and stone material (thickness of adhesive up to 10 mm).

**TECHNICAL DATA:**
- Pot life of mix: 45 minutes.
- Application temperature range: from +5°C to +30°C.
- Open time: 20 minutes.
- Setting time: 2 hours.
- Set to light foot traffic: 3-4 hours.
- Ready for use: 24 hours.
- Colours available: grey and white.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: N° 4, 5, 6 or 10 notched trowel.
- Consumption: 3-8 kg/m².
- Packaging:
  - GRANIRAPID white: 28 kg kit
    - component A: 22.5 kg bag
    - component B: 5.5 kg drum.
  - GRANIRAPID grey: 30.5 kg kit
    - component A: 25 kg bag
    - component B: 5.5 kg drum.

**Isolastic**
Elasticising latex mixed with KERABOND, KERABOND T and ADESILEX P10. When KERABOND, KERABOND T and KERABOND PLUS are mixed with ISOLASTIC they form a high-performance, highly deformable adhesive with extended open time (C2E/S2).
When ADESILEX P10 is mixed with ISOLASTIC (dilution rate 1:1 with water), it forms a high-performance, highly deformable adhesive with extended open time (C2E/S1).

**TECHNICAL DATA OF KERABOND/KERABOND T/ KERABOND PLUS+ISOLASTIC:**
- Pot life of mix: more than 8 hours.
- Open time: 20 minutes.
- Waiting time before grouting:
  - on walls: 4-8 hours;
  - on floors: 24-36 hours.
- Set to light foot traffic: 24-36 hours.
- Ready for use: approx. 14 days.
- Deformability according to EN 12004: S2 - highly deformable (ADESILEX P10 + ISOLASTIC diluted 1:1 with water - S1 deformable).
- EMICODE: EC1 Plus - very low emission.
- Application: KERABOND/KERABOND T/KERABOND PLUS + ISOLASTIC: N° 4, 5 or 6 notched trowel.
  - ADESILEX P10/SOLASTIC diluted 1:1 with water:
    - N° 4, 5 or 6 notched trowel.
- Storage: 24 months. Protect from frost.
- Consumption: 1-2 kg/m².
- Packaging: 5 and 25 kg drums.

**Kerabond**
Cementitious adhesive for ceramic tiles (thickness of adhesive up to 5 mm).

**TECHNICAL DATA:**
- Pot life of mix: more than 8 hours.
- Open time: 20 minutes.
- Waiting time before grouting:
  - on walls: 4-8 hours;
  - on floors: 24 hours.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: approx. 14 days.
- Colours: grey and white.
- Application: N° 4, 5 or 6 notched trowel.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (25 kg bags), 24 months (5 kg bags).
- Consumption: 2-5 kg/m².
- Packaging: 25 kg bags and 4x5 kg Alupack boxes.
4. ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL

**Kerabond Plus**
High-performance cementitious adhesive with extended open time for ceramic tiles and stone materials.

**TECHNICAL DATA:**
- Pot life of mix: more than 8 hours.
- Open time: ≥ 30 minutes.
- Waiting time before grouting:
  - on walls: 4-6 hours;
  - on floors: 24 hours.
- Set to light foot traffic: approx. 24 hours.
- Ready for service: approx. 14 days.
- Colours: grey and white.
- Application: N° 4, 5 or 6 notched trowel.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (25 kg bags), 24 months (5 kg bags).
- Consumption: 2-5 kg/m².
- Packaging: 25 kg bags.

**Kerabond T**
Cementitious adhesive with no vertical slip for ceramic tiles (thickness of adhesive up to 5 mm).

**TECHNICAL DATA:**
- Pot life of mix: more than 8 hours.
- Open time: 20 minutes.
- Waiting time before grouting:
  - on walls: 4-6 hours;
  - on floors: 24 hours.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: approx. 14 days.
- Colours: grey and white.
- Application: N° 4, 5 or 6 notched spreader.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Consumption: 2-5 kg/m².
- Packaging: 25 kg bags.

**Keracrete**
Synthetic latex rubber mixed with sand and cement (thickness up to 5 mm).

**TECHNICAL DATA:**
- Pot life of mix: 30 minutes.
- Open time: 20 minutes.
- Waiting time before grouting:
  - on walls: 4-6 hours;
  - on floors: 24 hours.
- Set to light foot traffic: approx. 3 days.
- Ready for use: approx. 14 days (21 days for basins and swimming pools).
- Mixing ratio: 1 part by weight of KERACRETE, 2 parts by weight of cement (class 32.5), 2 parts by weight of sand; or 1 part by weight of KERACRETE, 1,5 parts by weight of cement (class 42.5), 2 parts by weight of sand; or alternatively 1 part by weight of KERACRETE, 1 part by weight of cement (class 32.5) and 2 parts by weight of sand.
- Storage: 24 months. Protect from frost.
- Consumption: 0.5-1 kg/m².
- Packaging: 25 kg drums.

**Keraflex**
High-performance cementitious adhesive with no vertical slip and extended open time for ceramic and stone tiles (thickness of adhesive up to 5 mm).

**TECHNICAL DATA:**
- Pot life of mix: more than 8 hours.
- Open time: ≥ 30 minutes.
- Waiting time before grouting:
  - on walls: 4-6 hours;
  - on floors: 24 hours.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: approx. 14 days.
- Colours: grey and white.
- Application: N° 4, 5 or 6 notched trowel.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (25 kg bags), 24 months (5 kg bags).
- Consumption: 2-5 kg/m².
- Packaging: 25 kg bags and 4x5 kg Alupack boxes.
**Keraflex Easy S1**
Easy-to-apply high-performance deformable cementitious adhesive with extended open time and high wetting capacity for ceramic tiles and stone materials. With very low emission of volatile organic compounds. Particularly recommended for bonding porcelain tiles on large spreads of flooring; applied in layers up to 10 mm thick.

**TECHNICAL DATA:**
- **Pot life of mix:** more than 8 hours.
- **Open time:** > 30 minutes.
- **Waiting time before grouting:**
  - on walls: 4-8 hours;
  - on floors: 24 hours.
- **Set to foot traffic:** approx. 24 hours.
- **Ready for service:** approx. 14 days.
- **Deformability according to EN 12004:** S1 - deformable.
- **Colour:** white.
- **Application:** N° 4, 5, 6 or 10 notched spreader.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 2.5 kg/m².
- **Packaging:** 25 kg bags.

**Keraflex Maxi S1**
High-performance, deformable cementitious adhesive with no vertical slip, extended open time, excellent workability and Low Dust technology for ceramic tiles, particularly recommended for bonding large porcelain and natural stone tiles (thickness of adhesive from 3 to 15 mm). With very low emission of volatile organic compounds.

**TECHNICAL DATA:**
- **Pot life of mix:** more than 8 hours.
- **Open time:** > 30 minutes.
- **Waiting time before grouting:**
  - on walls: 4-6 hours;
  - on floors: 24 hours.
- **Set to foot traffic:** approx. 24 hours.
- **Ready for service:** approx. 14 days.
- **Deformability according to EN 12004:** S1 - deformable.
- **Colour:** grey.
- **Application:** N° 4, 5, 6 or 10 notched spreader.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 1.2 kg/m² per mm of thickness.
- **Packaging:** 23 kg bags.

**Keraflex Maxi S1 Zero**
High-performance cementitious grey adhesive with no vertical slip, with Low Dust technology, extended open time and deformable with excellent workability. Suitable for laying large-sized ceramic tiles and stone material, with very low emission level of volatile organic compounds and offset residual greenhouse gas emissions.

**TECHNICAL DATA:**
- **Pot life of mix:** more than 8 hours.
- **Set to foot traffic:** on walls: 4-8 hours;
- **Storage:** 12 months.
- **Consumption:** 1.2 kg/m² per mm of thickness.
- **Packaging:** 23 kg bags.

**Keraquick Maxi S1**
High-performance, deformable, rapid-setting and hydrating, non-slip cementitious adhesive with very low emission of volatile organic compounds for ceramic tiles and in particular for stone, including large formats. Suitable for application in layers up to 15 mm thick.

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Open time:** 20 minutes.
- **Waiting time before grouting:** 2-3 hours.
- **Set to foot traffic:** approx. 2-3 hours.
- **Ready for service:** approx. 24 hours (3 days for tubs and swimming pools).
- **Deformability according to EN 12004:** S1 - deformable.
- **Colours:** grey and white.
- **Application:** N° 4, 5, 6 or 10 notched spreader.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months (23 kg and 25 kg bags), 24 months (5 kg bags).
- **Consumption:** 1.2 kg/m² per mm of thickness.
- **Packaging:** 23 kg and 25 kg bags and boxes of 4x5 kg Alupack.
4. ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL

**Keraset**
Cementitious adhesive for ceramic tiles (thickness of adhesive up to 5 mm).

**TECHNICAL DATA:**
- **Pot life of mix:** 8 hours.
- **Open time:** 20 minutes.
- **Waiting time before grouting:**
  - on walls: 3-6 hours;
  - on floors: 24 hours.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** approx. 14 days.
- **Colours:** grey and white.
- **Application:** N° 4, 5 or 6 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 2-5 kg/m².
- **Packaging:** 25 kg bags.

**Latex Plus**
Elasticising latex to be mixed with KERAQUICK MAXI S1.
When KERAQUICK MAXI S1 is mixed with LATEX PLUS it forms a high-performance, quick-setting, highly-deformable adhesive (C2F/S2).

**TECHNICAL DATA OF LATEX PLUS + KERAQUICK MAXI S1:**
- **Pot life of mix:** 45 minutes.
- **Open time:** 20 minutes.
- **Waiting time before grouting:** 2-3 hours.
- **Set to light foot traffic:** approx. 2-3 hours.
- **Ready for use:** approx. 24 hours. (3 days for basins and swimming pools).
- **Deformability according to EN 12004:** S2 - highly deformable.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage (LATEX PLUS):** 24 months. Protect from frost.
- **Consumption:** to be calculated according to the amount of KERAQUICK MAXI S1 mixing ratio.
- **Packaging:** 10 kg drums.

**Tixobond White**
High-performance, ultra-white cementitious adhesive with no vertical slip and long open time for ceramic tiles (thickness of adhesive up to 15 mm).

**TECHNICAL DATA:**
- **Pot life of mix:** more than 8 hours.
- **Open time:** 30 minutes.
- **Waiting time before grouting:**
  - on walls: 4-8 hours;
  - on floors: 24 hours.
- **Set to light foot traffic:** 24 hours.
- **Ready for use:** approx. 14 days.
- **Colours:** white.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 1.2 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Ultralite Flex**
One-component, high-performance lightweight cementitious adhesive with moderate deformability, no vertical slip, extended open time, Low Dust technology, very high yield, good trowellability and high wetting capacity for ceramic tiles, stone material and thin porcelain tiles.

**TECHNICAL DATA:**
- **Pot life of mix:** more than 8 hours.
- **Open time:** > 30 minutes.
- **Waiting time before grouting:** 4-8 hours.
- **Set to foot traffic:** 24 hours.
- **Ready for service:** 14 days.
- **Colours:** white or grey.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 0.8 kg/m² per mm of thickness, equivalent to 1.5-2.5 kg/m².
- **Packaging:** 15 kg bags.
### Ultralite S1

One-component, high-performance, deformable, lightweight cementitious adhesive with no vertical slip, long open time, Low Dust technology and extremely high yield easy to apply by trowel, for ceramic tiles and stone material.

**Technical Data:**
- **Pot life of mix:** more than 8 hours.
- **Open time:** > 30 minutes.
- **Waiting time before grouting:**
  - on walls: after 2-3 hours.
  - on floors: 24 hours.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** approx. 14 days.
- **Deformability according to EN 12004:** S1 - deformable.
- **Colour:** grey and white.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 1.5-2.5 kg/m².
- **Packaging:** 15 kg bags.

### Ultralite S1 Quick

One-component, high-performance, deformable, lightweight, rapid-setting and hydrating cementitious adhesive with no vertical slip, good trowelability, high wetting capacity and very high yield, for ceramic tiles, stone and thin porcelain tiles.

**Technical Data:**
- **Pot life of mix:** 50 minutes.
- **Open time:** > 20 minutes.
- **Grouting of joints:**
  - on walls: after 2-3 hours.
  - on floors: 24 hours.
- **Set to light foot traffic:** 2-3 hours.
- **Ready for use:** 24 hours.
- **Colours:** grey and white.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **Deformability according to EN 12004:** S1 - deformable.
- **Storage:** 12 months.
- **Consumption:** 1.5-2.5 kg/m².
- **Packaging:** 15 kg bags.

### Ultralite S2

One-component, high-performance, highly-deformable, lightweight, rapid-setting and hydrating cementitious adhesive with extended open time, very high yield, easy to trowel and good buttering capacity, for ceramic tiles and stone, ideal for thin porcelain tiles.

**Technical Data:**
- **Pot life of mix:** more than 8 hours.
- **Waiting time before grouting:**
  - on walls: 4-8 hours.
  - on floors: 24 hours.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** approx. 14 days.
- **Deformability according to EN 12004:** S2 - highly deformable.
- **Colour:** grey and white.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 0.8 kg/m² per mm of thickness, equivalent to 1.5-2.5 kg/m².
- **Packaging:** 15 kg bags.

### Ultralite S2 Quick

One-component, high-performance, highly-deformable, lightweight, rapid-setting and hydrating cementitious adhesive with extended open time, good trowelability, high wetting capacity and extremely high yield, for ceramic tiles and stone, ideal for installing thin porcelain tiles.

**Technical Data:**
- **Pot life of mix:** 50 minutes.
- **Open time:** > 30 minutes.
- **Grouting of joints:**
  - on walls: after 2-3 hours.
  - on floors: after 2-3 hours.
- **Set to light foot traffic:** 2-3 hours.
- **Ready for use:** 24 hours.
- **Colours:** grey and white.
- **Application:** N° 4, 5, 6 or 10 notched trowel.
- **Deformability according to EN 12004:** S2 - highly deformable.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Consumption:** 1.5-2.5 kg/m².
- **Packaging:** 15 kg bags.
4. ADHESIVES FOR CERAMIC TILES AND STONE MATERIAL

4.2 Synthetic resin-based adhesives

**Adesilex P22**
Ready-to-use adhesive paste with no vertical slip and long open time for ceramic tiles (thickness of adhesive up to 5 mm).

**Fix & Grout Brick**
Ready to use, high-performance adhesive paste with BioBlock® mould-resistant technology for bonding brick slips and light weight cementitious and synthetic resin conglomerate decorative elements on internal and external surfaces.

**Ultramastic III**
Ready-to-use, high-performance adhesive paste with no vertical slip and long open time, for laying ceramic tiles on walls and floors (thickness of adhesive up to 5 mm).

4.3 Reactive adhesives

**Keralastic**
Two-component, high-performance polyurethane adhesive for ceramic tiles and stone material.
**Keralastic T**
Two-component, high-performance polyurethane adhesive with no vertical slip for ceramic tiles and stone material.

**TECHNICAL DATA:**
- Open time: 50 minutes.
- Waiting time before grouting: 12 hours.
- Set to light foot traffic: approx. 12 hours.
- Ready for service: approx. 7 days.
- Deformability: highly deformable.
- Colours: grey and white.
- Application: N° 4 or 5 notched spreader.
- Storage: 24 months.
- Consumption: 2.5 - 5 kg/m².
- Packaging: 5 and 10 kg units (A:B = 94 : 6 parts by weight).

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**Kerapoxy Adhesive**
Two-component epoxy adhesive with no vertical slip for ceramic tiles and stone material.

**TECHNICAL DATA:**
- Pot life of mix: 45 minutes.
- Open time: 60 minutes.
- Set to light foot traffic: approx. 10-12 hours.
- Ready for use: 2 days.
- Colours: grey and white.
- Application: suitable notched trowel.
- Storage: 24 months.
- Consumption: 1.5 kg/m² per mm of thickness.
- Packaging: 10 kg units.

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**Ultrabond Eco PU 2K**
Two-component, solvent-free, high performance, non-slip polyurethane adhesive with very low emission level of volatile organic compounds (VOC) for ceramic and stone tiles.

**TECHNICAL DATA:**
- Open time: 20 minutes.
- Waiting time before grouting: 12 hours.
- Set to foot traffic: approx. 12 hours.
- Ready for service: approx. 7 days.
- Deformability: good.
- Colours: grey and white.
- Application: N° 4 or 5 notched spreader.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Consumption: 2.5 - 5 kg/m².
- Packaging: 10 kg kit (A:B = 88:12 parts in weight).
GROUTS FOR CERAMIC TILES
5.1 Cementitious grouts

**Fugolastic**
Polymer liquid admix for KERACOLOR FF, KERACOLOR GG and KERACOLOR SF.

**Technical Data of Fugolastic + Keracolor:**
- Pot life of mix: approx. 2 hours.
- Waiting time before finishing: 10-20 minutes.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: 7-10 days.
- Application: rubber MAPEI trowel or rake.
- Finishing: MAPEI sponge or Scotch-Brite® pad.
- Storage: 24 months. Protect from frost.
- Consumption: according to the size of the joints.
- Packaging: 5, 10 kg drums and 12x1 kg packages.

**Keracolor FF**
Pre-blended, high-performance, polymer-modified cementitious mortar with water-repellent DropEffect® technology for grouting joints up to 6 mm wide.

**Technical Data:**
- Pot life of mix: approx. 2 hours.
- Waiting time before finishing: 10-20 minutes.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: 7-10 days.
- Colours: 15.
- Application: rubber MAPEI trowel or rake.
- Finishing: MAPEI sponge or Scotch-Brite® pad.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (25 kg bags), 24 months (5 kg bags).
- Consumption: according to the size of the joints.
- Packaging: 25 kg bags and 4x5 kg Alupack boxes.

**Keracolor GG**
Pre-blended, high-performance polymer-modified cementitious mortar for grouting joints 4 to 15 mm wide.

**Technical Data:**
- Pot life of mix: approx. 2 hours.
- Waiting time before finishing: 10-20 minutes.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: 7-10 days.
- Colours: 14.
- Application: rubber MAPEI trowel or rake.
- Finishing: MAPEI sponge or Scotch-Brite® pad.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (22-25 kg bags), 24 months (5 kg bags).
- Consumption: according to the size of the joints.
- Packaging: 25 kg bags and 4x5 kg Alupack boxes, according to the colour.

**Keracolor SF**
Fine-grained, high-performance white cementitious mortar for grouting joints up to 4 mm wide.

**Technical Data:**
- Pot life of mix: approx. 2 hours.
- Waiting time before finishing: 10-20 minutes.
- Set to light foot traffic: approx. 24 hours.
- Ready for use: 7 days.
- Colour: white.
- Application: rubber MAPEI trowel or rake.
- Finishing: MAPEI sponge or Scotch-Brite® pad.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months (22 kg bags), 24 months (5 kg bags).
- Consumption: according to the size of the joints.
- Packaging: 22 kg bags and 4x5 kg Alupack boxes.
## 5.2 Epoxy grouts

### Ultracolor Plus
High-performance, anti-efflorescence, quick-setting and drying polymer-modified mortar with water-repellent DropEffect® and mould-resistant BioBlock® technology for grouting joints 2 to 20 mm wide.

**TECHNICAL DATA:**
- **Pot life of mix:** 20-25 minutes.
- **Waiting time before finishing:** 15-30 minutes.
- **Set to light foot traffic:** approx. 3 hours.
- **Ready for use:** 24 hours (48 hours for basins and swimming pools).
- **Colours:** 34.
- **Application:** rubber trowel.
- **Finishing:** MAPEI sponge or Scotch-Brite® pad.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** – 12 months (23 kg bags); – 24 months (2 and 5 kg bags).
- **Consumption:** according to the size of the joints.
- **Packaging:** 23 kg bags and 4x5 kg Alupack and 8x2 kg Alupack boxes, according to the colour.

### Kerapoxy
Two-component, high-performance, anti-acid epoxy mortar and adhesive with no vertical slip for laying and grouting ceramic tiles and stone material (minimum width of joints 3 mm).

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Open time:** 30 minutes.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** 4 days. After 4 days surfaces may be exposed to chemicals.
- **Colours:** 20.
- **Application:** suitable trowel.
- **Finishing:** MAPEI cellulose sponge.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Consumption:** - for grouting: according to the size of the joints; - for bonding: 2-4 kg/m².
- **Packaging:** 5 and 10 kg units and 12x2 kg boxes.

### Kerapoxy CQ
Two-component epoxy grout, easy to apply and excellent cleanability, with a bacteriostatic agent and BioBlock® technology, ideal for grouting ceramic tiles and mosaics. Can also be used as an adhesive.

**Product is certified by the University of Modena (Italy) according to ISO 22196:2007 standards as a grouting mortar protected against the formation and proliferation of micro-organisms**

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Open time (adhesive):** 30 minutes.
- **Adjustment time (adhesive):** 60 minutes.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** after 4 days surfaces may be exposed to chemicals.
- **Colours:** 19.
- **Application:** rubber MAPEI trowel.
- **Finishing:** MAPEI cellulose sponge.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints.
- **Packaging:** 3 kg units. 10 kg units for colours: 283 sea blue, 282 bardiglio grey, 100 white, 113 cement grey, 114 anthracite and 132 beige 2000.

### Kerapoxy Design
Two-component, anti-acid, decorative, translucent epoxy mortar for grouting glass mosaic, ceramic tiles and stone material, used in combination with MAPEGLITTER for a particularly attractive and high quality finish. May also be used as an adhesive.

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Open time (adhesive):** 30 minutes.
- **Adjustment time (adhesive):** 60 minutes.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** after 4 days surfaces may be exposed to chemicals.
- **Colours:** 32.
- **Application:** suitable trowel.
- **Finishing:** MAPEI cellulose sponge.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints.
- **Packaging:** 3 kg units.
5. GROUTS FOR CERAMIC TILES

**Kerapoxy IEG**
Two-component epoxy mortar with extremely high chemical resistance for grouting joints at least 3 mm wide.

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** 4 days. After 4 days surfaces may be exposed to chemicals.
- **Colours:** 113 and 130.
- **Application:** rubber MAPEI trowel.
- **Finishing:** Scotch Brite® pad and MAPEI sponge (or single-head rotary polisher with Scotch Brite® type abrasive felt disk and rubber rake).
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints.
- **Packaging:** 10 kg units.

**Kerapoxy P**
Easy-to-apply, two-component, anti-acid epoxy mortar with good cleanability properties for grouting joints at least 3 mm wide.

**TECHNICAL DATA:**
- **Pot life of mix:** 45 minutes.
- **Set to light foot traffic:** approx. 24 hours.
- **Ready for use:** 4 days. After 4 days surfaces may be exposed to chemicals.
- **Colours:** 113 and 130.
- **Application:** rubber MAPEI trowel.
- **Finishing:** Scotch Brite® pad and MAPEI sponge (or single-head rotary polisher with Scotch Brite® type abrasive felt disk and rubber rake).
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints.
- **Packaging:** 10 kg units.

**MapeGlitter**
Polyester, aluminium and epoxy resin metal-effect coloured glitter mixed with used for mixing with KERAPOXY DESIGN.

**TECHNICAL DATA:**
- **Maximum dosage:** 10% by weight of KERAPOXY DESIGN.
- **Colours:** silver and light gold. 22 other colours available upon request.
- **Packaging:** boxes of 10x100 g packets.

5.3 Ready-to-use paste products

**Flexcolor**
Ready-to-use, polymer filler paste with water-repellent DropEffect® and mould-resistant BioBlock® technology for grouting joints in ceramic tiles 2 to 10 mm wide.

**TECHNICAL DATA:**
- **Waiting time before finishing:** from 15-20 minutes, according to surrounding conditions and absorption of the tiles.
- **Set to light foot traffic:** 48 hours.
- **Ready for use:** 7 days.
- **Colours:** 100 white, manhattan 2000 110, 111 silver-grey, medium grey 112 and 132 beige 2000.
- **Application:** rubber trowel.
- **Finishing:** Scotch-Brite® pad and MAPEI sponge.
- **Storage:** 12 months.
- **Consumption:** according to the size of the joints.
- **Packaging:** 5 kg drums.
A range of high-quality, highly-functional products rich in colour for internal and external use. Solvent-free, with very low emission of volatile organic compounds (VOC) and certified in compliance with the most strict international standards. Suitable for all types and formats of floors and walls: ceramic tiles, cotto, stone material, mosaics and metal. Available as cementitious, grouting paste and epoxy grout. Mapei Coloured Grouts. The choice that completes every project. From Mapei, world leader in the production of grouts and adhesives. Mapei is by your side: let's take a deeper look together at www.mapei.it

Due to the printing processes involved, the colours should be taken as merely indicative of the shades of the actual products.
SYSTEMS FOR LAYING AND GROUTING ARCHITECTURAL STONE PAVING
6. SYSTEMS FOR LAYING AND GROUTING ARCHITECTURAL STONE PAVING

**Keracolor PPN**
High-strength, quick-setting pozzolan mortar with very low water absorption for grouting paved floors with joints from 5 to 30 mm wide subject to heavy loads and intense traffic.

**TECHNICAL DATA:**
- Pot life of mix: 20 minutes.
- Set to light foot traffic: 1 hour.
- Ready for use: 3 days for light to medium traffic, 7 days for heavy traffic.
- Colour: 113 cement grey.
- Application: rubber MAPEI trowel or rake.
- Cleaning: MAPEI sponge or Scotch Brite® pad (or single-head rotary polisher with Scotch Brite® type abrasive felt disk). As an alternative, hydro-cleaner once it has started to harden.
- Storage: 12 months.
- Consumption: according to the size of the joints and slabs.
- Packaging: 25 kg bags.

**Mapestone Joint**
One-component, solvent-free, non-flammable polyurethane binder with a characteristic odour for creating elastic and pervious architectural road surfaces.

Areas of use: sealing grout lines between setts, paving bricks and cobblestones used to create architectural road; surfaces for vehicle use installing and sealing paving for pedestrian and light vehicle use.

**TECHNICAL DATA:**
- Consumption: with 1 kg of MAPESTONE JOINT it is possible to seal 1 m² of approx. 8-10 cm setts.
- Packaging: 25 litre tanks, 20 kg drums and 1000 kg IBCS.

**Mapestone Joint Cleaner**
Specific odourless cleaner for residues of MAPESTONE JOINT and tools. It can be used for any type of stone.

**TECHNICAL DATA:**
- Colour: transparent.
- Consumption: depends on the amount of dirt that needs to be removed.
- Packaging: is available in 5 litre and 25 litre drums.

**Mapestone PFS 2**
Pre-blended mortar for grouting architectonic stone floors with exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4, with high compressive strength and good resistance to de-icing salts, freeze-thaw cycles and seawater.

**TECHNICAL DATA:**
- Pot life of mix: 20 minutes.
- Waiting time before putting into service: 7 days.
- Colour: basic and Dark Grey.
- Application: rubber MAPEI trowel or rake.
- Cleaning: wet sponge and then light, steady jet of water or with a suitable cleaning machine.
- Storage: 12 months.
- Consumption: according to the size of the joints slabs and stone.
- Packaging: 25 kg bag.
**Mapestone PFS 2 Visco**
Low viscosity ready-mixed mortar with high compressive strength and resistant to de-icing salts, freeze-thaw cycles and seawater, with exceptional physical chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4, for grouting architectural slab and block-paved road surfaces.

*In compliance with UNI 11714-1:2018 standard*

**TECHNICAL DATA:**
- Pot life of mix: 40 mins.
- Waiting time before putting into service: 7 days.
- Colour: basic and Dark Grey.
- Application: slurry poured into grout lines using suitable containers.
- Cleaning: wet sponge and then light, steady jet of water or with a suitable cleaning machine.
- Storage: 12 months; protect from moisture.
- Consumption: according to the thickness of the slabs/blocks and the width and depth of the grout lines.
- Packaging: 25 kg bags.

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**Mapestone PFS PCC 2**
Pre-blended, polymer-modified mortar with a low modulus of elasticity, high compressive strength and good resistance to de-icing salts, freeze-thaw cycles and seawater with exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4, for grouting architectonic stone floors.

*In compliance with UNI 11714-1:2018 standard*

**TECHNICAL DATA:**
- Pot life of mix: 20 minutes.
- Waiting time before putting into service: 7 days.
- Colour: basic.
- Application: rubber MAPEI trowel or rake.
- Cleaning: wet sponge and then light, steady jet of water or with a suitable cleaning machine.
- Storage: 12 months.
- Consumption: according to the size of the joints and slabs.
- Packaging: 25 kg bag.

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**Mapestone Scraper**
Acid-based cleaner for architectural stone paving.

**TECHNICAL DATA:**
- pH of the liquid: 1.1.
- Application: let the product act for 5-10 minutes, scrub with a brush or an abrasive sponge (medium grit Scotch Brite®) until all visible stains have disappeared.
- Storage: 24 months in the original packaging.
- Consumption: depending on the needs.
- Packaging: 25 kg plastic drums; 5 kg plastic drums; 1 kg bottles in boxes of 12x1 kg.

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**Mapestone TFB 60**
Pre-blended mortar with high compressive strength and good resistance to de-icing salts, freeze-thaw cycles and seawater with exceptional physical-chemical characteristics suitable for areas exposed to dry/damp cycles specified by exposure class XF4, for installation screeds for architectonic stone flooring.

*In compliance with UNI 11714-1:2018 standard*

**TECHNICAL DATA:**
- Mixing ratio: 1.25 kg sack of MAPESTONE TFB 60 with 1.8-2 l of water.
- Waiting time before putting into service: 7 days.
- Grout joints with the products from the Mapestone PFS 2 range: fresh on fresh.
- Storage: 12 months.
- Consumption: 20 kg/m² per centimetre of thickness.
- Packaging: 25 kg bag.
**Mapestone TFB Cube**

Pre-mixed mortar for installation screed of architectural stone paving, suitable for class of exposure XF4 and XS3, with high compressive strength and resistance to de-icing salts, freeze-thaw cycles, and seawater.

*In compliance with UNI 11714-1:2018 standard*

**TECHNICAL DATA:**
- **Mixing ratio:** 1.25 kg bag of MAPESTONE TFB CUBE with 1.8-2 l of water.
- **Waiting time before putting into service:** 7 days.
- **Grout joints with the products from the MAPESTONE PFS 2 range:** fresh on fresh.
- **Storage:** 12 months.
- **Consumption:** 20 kg/m² per centimetre of thickness.
- **Packaging:** 25 kg bag.
ELASTIC SEALANTS AND ADHESIVES
7. ELASTIC SEALANTS AND ADHESIVES

7.1 Acetic silicone sealants

**Mapesil 300°C**
Acetic silicone sealant for high temperatures.

**TECHNICAL DATA:**
- Movement in service: 20%.
- Modulus of elasticity at 100% elongation: 0.60 N/mm².
- Shore A hardness: 20.
- Workability time: 6’ (+23°C, 50% R.H.).
- Colours: black.
- EMICODE: EC1 Plus - very low emission.
- Application: extrusion gun.
- Consumption: 3.0 linear metres per 300 ml cartridge (10x10 mm section).
- Packaging: 300 ml cartridge.

**Mapesil AC**
Pure, mould-resistant, acetic silicone sealant with BioBlock® technology for movements up to 25%.

**TECHNICAL DATA:**
- Movement in service: 25%.
- Modulus of elasticity at 100% elongation: 0.35 N/mm².
- Shore A hardness: 20.
- Workability time: 10 minutes.
- Colours: 34 colours + transparent.
- EMICODE: EC1 Plus - very low emission.
- Application: extrusion gun.
- Consumption: 3.1 linear metres per 310 ml cartridge (10x10 mm section).
- Packaging: 310 ml cartridges.

**Mapesil U**
Multi-purpose mould-resistant acetic silicone sealant for movements up to 20%.

**TECHNICAL DATA:**
- Movement in service: 20%.
- Modulus of elasticity at 100% elongation: 0.36 N/mm².
- Shore A hardness: 18.
- Workability time: 20 mins.
- Colours: transparent, white.
- Application: silicone gun.
- Consumption: 2.8 meters per 280 ml cartridge (10x10 mm section).
- Packaging: 280 ml cartridges.

**Mapesil Z Plus**
Mould-resistant acetic silicone sealant for sanitary fittings for movements up to 20%.

**TECHNICAL DATA:**
- Movement in service: 20%.
- Modulus of elasticity at 100% elongation: 0.36 N/mm².
- Shore A hardness: 18.
- Workability time: 25’.
- Colours: transparent, white, 113 grey, 130 jasmine.
- EMICODE: EC1 Plus - very low emission.
- Application: extrusion gun.
- Consumption: 2.8 linear metres per 280 ml cartridge (10x10 mm section).
- Packaging: 280 ml cartridges.
7.2 Polyurethane sealants and adhesives

**Mapeflex E-PU 21 SL NEW**
Two-component, high-strength, castable epoxy polyurethane sealant with high modulus of elasticity.

**TECHNICAL DATA:**
- **Movement in service:** 10%.
- **Shore A hardness:** 60.
- **Workability time:** 50 minutes.
- **Set to traffic:** 24-36 h.
- **Colour:** 113 grey.
- **Application:** by pouring.
- **Consumption:** 0.14 kg/linear metres (10x10 mm section).
- **Packaging:** 5 (A+B).

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**Mapeflex E-PU 30 NS NEW**
Two-component, high-strength, epoxy-polyurethane sealant with high modulus of elasticity.

**TECHNICAL DATA:**
- **Movement in service:** 10%.
- **Shore A hardness:** 60.
- **Workability time:** 40 minutes.
- **Set to traffic:** 24-36 h.
- **Colour:** 113 grey.
- **Application:** trowel.
- **Consumption:** 0.14 kg/linear metres (10x10 mm section).
- **Packaging:** 5 (A+B).

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**Mapeflex PU35 CR**
Polyurethane sealant with high modulus of elasticity, resistant to chemicals, suitable for clean rooms and environments with food and beverages.

**TECHNICAL DATA:**
- **Movement in service (%):** 25 (with PRiMER M or PRiMER A).
- **Modulus of elasticity at 100% elongation:** 0.8 N/mm².
- **Shore A hardness (DIN 53505):** 36.
- **Workability time:** 90 minutes.
- **Colour:** grey 113.
- **EMICODE:** EC 1 R Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 6.0 meters per 600 ml tube (10x10 mm section).
- **Packaging:** 600 ml soft-cartridge.

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**Mapeflex PU 40**
Paintable polyurethane sealant with a low modulus of elasticity for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.24 N/mm².
- **Shore A hardness:** 27.
- **Workability time:** 3 hours.
- **Colours:** white, grey 111, grey 112.
- **Application:** extrusion gun.
- **Consumption:**
  - 3.0 linear metres per 300 ml cartridge;
  - 6.0 linear metres per 600 ml soft-cartridges (10x10 mm section).
- **Packaging:** 300 ml cartridges, 600 ml soft-cartridges.
**Mapeflex PU 45 FT**
Rapid-hardening paintable polyurethane sealant and adhesive with a high modulus of elasticity for movements up to 20%.

**TECHNICAL DATA:**
- Movement in service: 20%.
- Modulus of elasticity at 100% elongation: 0.80 N/mm².
- Shore A hardness: 38.
- Workability time: 35 mins.
- Colours: white, 111 grey, 113 grey, black, brown, and beige.
- Application: silicone gun.
- Consumption: 3.0 meters per 300 ml cartridge, 6.0 meters per 600 ml tube (10x10 mm section).
- Packaging: 300 ml cartridge, 600 ml tube.

**Mapeflex PU 50 SL**
Paintable, castable polyurethane sealant with a low modulus of elasticity for movements up to 25%.

**TECHNICAL DATA:**
- Movement in service: 25%.
- Modulus of elasticity at 100% elongation: 0.25 N/mm².
- Shore A hardness: 22.
- Workability time: 2 hours.
- Colour: 111 grey.
- Application: pouring, pressure pump.
- Consumption: 6.0 linear metres per 600 ml soft-cartridge (10x10 mm section).
- Packaging: 600 ml soft-cartridges and 12 kg drums.

**Mapeflex PU 65**
Two-component, castable polyurethane sealant for sealing joints in roads up to surface level, mixed with QUARTZ 0.5 sand at a ratio of up to 1:1 by weight. Setting and hardening may be accelerated by adding a specific liquid accelerator MAPEFLEX PU 65 CATALYST.

**TECHNICAL DATA:**
- Shore A hardness: 80.
- Workability time: 2-3 hours.
- Colour: black.
- Application: by pouring.
- Consumption: 1.2 kg/linear metres (10x10 mm section).
- Packaging: 10 kg drums (A+B).

**Mapeflex PU 70 NS**
Two-component, thixotropic, polyurethane sealant with low modulus of elasticity, resistant to hydrocarbons, for movements up to 25%.

**TECHNICAL DATA:**
- Movement in service: 25%.
- Modulus of elasticity at 100% elongation: 0.6 N/mm².
- Shore A hardness: 30.
- Workability time: 45 minutes.
- Colour: black.
- Application: spreader, extrusion gun.
- Consumption: 0.15 kg/metre (10x10 mm section).
- Packaging: 5 kg drums.
7.3 Neutral silicone sealants

**Mapesil LM**
Neutral silicone mould-resistant sealant with BioBlock® technology for stone for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.35 N/mm².
- **Shore A hardness:** 21.
- **Workability time:** 15 minutes.
- **Colours:** transparent, grey, copper and dark brown.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 3.1 linear metres per 310 ml cartridge (10x10 mm section).
- **Packaging:** 310 ml cartridges.

**Mapesil GP**
Neutral mould-resistant silicone sealant for building work for movements up to 20%.

**TECHNICAL DATA:**
- **Movement in service:** 20%.
- **Modulus of elasticity at 100% elongation:** 0.37 N/mm².
- **Shore A hardness:** 24.
- **Workability time:** 35 mins.
- **Colour:** transparent, white, grey-white, grey, copper and dark brown.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 2.8 linear metres per 280 ml cartridge (10x10 mm bead).
- **Packaging:** 280 ml cartridges.

**Mapesil BM**
Neutral silicone sealant for metal-work for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.35 N/mm².
- **Shore A hardness:** 25.
- **Workability time:** 15 minutes.
- **Colours:** transparent, grey, copper and dark brown.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 3.1 linear metres per 310 ml cartridge (10x10 mm section).
- **Packaging:** 310 ml cartridges.

**Mapesil**
Neutral silicone mould-resistant sealant with BioBlock® technology for stone for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.30 N/mm².
- **Shore A hardness:** 18.
- **Workability time:** 45 mins.
- **Colours:** black.
- **Application:** pouring, pressure pump.
- **Consumption:** 0.15 kg/meter (10x10 mm section).
- **Packaging:** 10 kg drums (A+B).

**Mapesil**
Neutral silicone mould-resistant sealant with BioBlock® technology for stone for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.35 N/mm².
- **Shore A hardness:** 21.
- **Workability time:** 15 minutes.
- **Colours:** transparent, 100 white, 110 grey, 111 grey, 112 grey, 113 cement grey, 114 grey, 120 black, 130 jasmine and 132 beige (see “MAPEI Coloured Grouts”).
- **Application:** extrusion gun.
- **Consumption:** 3.1 linear metres per 310 ml cartridge (10x10 mm section).
- **Packaging:** 310 ml cartridges.
7. ELASTIC SEALANTS AND ADHESIVES

7.4 Hybrid sealants and adhesives

**Mapeflex MS 40**
Hybrid sealant with low modulus of elasticity also for wet substrates, for movements up to 25%.

**TECHNICAL DATA:**
- **Movement in service:** 25%.
- **Modulus of elasticity at 100% elongation:** 0.45 N/mm².
- **Shore A hardness:** 25.
- **Workability time:** 40 minutes.
- **Colours:** white, grey 111, grey 113.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 6 metres per 600 ml sausage (10x10 mm section).
- **Packaging:** 600 ml sausage.

**Mapeflex MS 45**
Paintable hybrid sealant and adhesive with a high modulus of elasticity also for wet substrates, for movements up to 20%.

**TECHNICAL DATA:**
- **Movement in service:** 20%.
- **Modulus of elasticity at 100% elongation:** 0.66 N/mm².
- **Shore A hardness:** 43.
- **Workability time:** 35’ (+23°C, 50% R.H.).
- **Colours:** white, 113 grey, brown, black.
- **EMICODE:** EC1 Plus - very low emission.
- **Certification:** certificate for contact with drinking water.
- **Application:** extrusion gun.
- **Consumption:** 3.0 linear metres per 300 ml cartridge (10x10 mm section).
- **Packaging:** 300 ml cartridge, 600 ml sausages.

**Mapeflex MS Crystal**
Elastic high modulus, flexible, crystal clear, paintable, hybrid sealant and adhesive. Also suitable for damp surfaces.

**TECHNICAL DATA:**
- **Movement in service:** 20%.
- **Modulus of elasticity at 100% elongation:** 0.6 N/mm².
- **Shore A hardness:** 35.
- **Workability time:** 20 minutes.
- **Colours:** crystal clear.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 3.0 linear metres per 300 ml cartridge (10x10 mm section).
- **Packaging:** 300 ml cartridges.

7.5 Other sealants

**Mapeflex AC3**
Paintable acrylic sealant with a smooth finish for movements up to 7.5%.

**TECHNICAL DATA:**
- **Movement in service:** 7.5%.
- **Modulus of elasticity at 50% elongation:** 0.20 N/mm².
- **Shore A hardness:** 53.
- **Workability time:** 20 minutes.
- **Colours:** white and grey.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** extrusion gun.
- **Consumption:** 3.1 metres per 310 ml cartridge (10x10 mm section).
- **Packaging:** 310 ml cartridge.
**Mapeflex Blackfill**  
Bitumen sealant.

**TECHNICAL DATA:**
Movement in service: plastic product.  
Dry solids content: 90%.  
Elongation at failure: 65%.  
Colours: black.  
Application: extrusion gun, trowel.  
Consumption: 3.0 linear metres per 300 ml cartridge (10x10 mm section).  
Packaging: 300 ml cartridge.

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**Mapeflex AC4**  
Paintable acrylic sealant for movements up to 12.5% with a smooth effect.

**TECHNICAL DATA:**
Movement in service: 12.5%.  
Modulus of elasticity at 50% elongation: 0.20 N/mm².  
Shore A hardness: 10.  
Workability time: 10 minutes.  
Colours: white and grey.  
EMICODE: EC1 Plus - very low emission.  
Application: extrusion gun, trowel, pneumatic pump.  
Consumption: 3.1 linear metres per 310 ml cartridge (10x10 mm section).  
Packaging: 310 ml cartridges and 550 ml soft-cartridges.

---

**Mapeflex AC-FR 2**  
Paintable acrylic sealant for fire-break joints with movements up to 12.5%. Resistant to fire for up to 240 minutes. Certified according to EN 1366-4, EN 13501-1, EN 13501-2.

**TECHNICAL DATA:**
Movement in service: 12.5%.  
Modulus of elasticity at 50% elongation: 0.11 N/mm².  
Shore A hardness: 15.  
Workability time: 15 minutes.  
Colour: grey.  
EMICODE: EC1 Plus - very low emission.  
Application: extrusion gun for sausages.  
Consumption: 5.5 meters per 550 ml sausage (10x10 mm section).  
Packaging: 550 ml sausage.

---

**Mapeflex AC-P**  
Paintable acrylic sealant with a render-effect finish for movements up to 12.5%.

**TECHNICAL DATA:**
Movement in service: 12.5%.  
Modulus of elasticity at 50% elongation: 0.11 N/mm².  
Shore A hardness: 15.  
Workability time: 15 minutes.  
Colour: white.  
EMICODE: EC1 Plus - very low emission.  
Application: extrusion gun, trowel, pneumatic pump.  
Consumption: 3.1 linear metres per 310 ml cartridge (10x10 mm section).  
Packaging: 310 ml cartridges.
TECHNICAL DATA:
Viscosity: creamy thixotropic paste.
Open time: 6’ (+23°C, 50% R.H.).
Final tensile strength: 17 N.
Initial tensile strength: 32.5 kg/cm².
Hardening time: 24-48 hours.
EMICODE: EC1 Plus - very low emission.
Colours: white.
Consumption: 3.0 meters per 300 ml cartridge (10x10 mm section).
Packaging: 300 ml cartridge.

Ultrabond MS Rapid
Rapid-setting, deformable, hybrid assembly adhesive for internal and external use, with a high initial sucker effect.

TECHNICAL DATA:
Viscosity: thixotropic paste.
Open time: 5’.
Initial tensile strength: 25 N.
Final shear strength: 30 kg/cm².
Hardening time: 2 h.
EMICODE: EC1R Plus - very low emission.
Colour: white.
Application: gun.
Consumption: 5 metres of bed (triangular section).
Packaging: 300 ml cartridges.

Ultrabond PU Strong
Ultra-rapid assembly polyurethane adhesive for structural bonds of construction details for internal and external use.

TECHNICAL DATA:
Viscosity: thixotropic paste.
Open time: 4 minutes.
Pressing time: 15-30 minutes.
Resistance to moisture: (EN 204-D4).
Colour: beige.
Application: gun.
Consumption: 15 metres (beads diameter 5 mm).
Packaging: 300 ml cartridges.

Ultrabond Super Grip
Acrylic, deformable assembly adhesive for internal use, with high initial sucker effect.

TECHNICAL DATA:
Viscosity: creamy thixotropic paste.
Open time: 10-15 minutes.
Initial tensile strength: 17 N.
Final tensile strength: 32.5 kg/cm².
Hardening time: 24-48 hours.
Dry solids content: 70%.
EMICODE: EC1 Plus - very low emission.
Colour: white.
Application: extrusion gun.
Consumption: 15 metres of bed (5 mm diameter section).
Packaging: 310 ml cartridges.
7.6 Adhesives for PVC

**Adesilex PVC**
Adhesive for welding approved low pressure PVC pipes.

**TECHNICAL DATA:**
- Viscosity: thick liquid.
- Dry solids content: 30%.
- Colour: red.
- Application: brush.
- Consumption: according to requirements.
- Packaging: 125 g tube.

**Adesilex PVC HP**
Adhesive for welding approved low and high pressure PVC pipes.

**TECHNICAL DATA:**
- Viscosity: thick liquid.
- Dry solids content: 30%.
- Colour: transparent.
- Application: brush.
- Consumption: according to requirements.
- Packaging: 125 g tube.

7.7 Accessories and primers for sealants

**Mapefoam**
Closed-cell, extruded foam polyethylene cord used as a support for elastomer sealants to gauge the correct size of flexible joints. Supplied in rolls in various lengths according to the diameter of the foam.

**TECHNICAL DATA:**
- Density: 40 kg/m³.
- Diameters and packaging:
  - Ø 6 mm boxes of 550 m - bags of 10 m
  - Ø 10 mm boxes of 550 m - bags of 10 m
  - Ø 15 mm boxes of 550 m - bags of 10 m
  - Ø 20 mm boxes of 350 m - bags of 10 m
  - Ø 25 mm boxes of 200 m
  - Ø 30 mm boxes of 160 m
  - Ø 40 mm boxes of 270 m

**Mapei Gun 310**
Extrusion gun for 280, 300 and 310 ml cartridges of sealant and chemical anchor.

**TECHNICAL DATA:**
- Maximum cartridge size: diameter 51 mm, length 218 mm.
- Suitable for the following MAPEI products:
  - MAPEISIL (all types), MAPEFLEX (one-component), ULTRABOND (one-component), MAPEFIX PE WALL 300, MAPEFIX PE SF 300, MAPEFIX VE SF 300.
  - Weight: 920 g.
  - Extrusion rate: 18:1.
  - Pusher travel: 4.5 mm each pull of trigger.
7. ELASTIC SEALANTS AND ADHESIVES

**Mapei Gun 310 PRO**
Extrusion gun for 280, 300 and 310 ml cartridges of sealant and chemical anchor.

**TECHNICAL DATA:**
- **Maximum cartridge size:** diameter 51 mm, length 218 mm.
- **Suitable for the following MAPEI products:** MAPEFLEX (one-component), ULTRABOND (one-component).
- **Weight:** 830 g.
- **Extrusion rate:** 18:1.
- **Pusher travel:** 4.5 mm each pull of trigger.

**Mapei Gun 420 2K**
Extrusion gun for co-axial cartridges up to 420 ml of chemical anchor.

**TECHNICAL DATA:**
- **Maximum size of co-axial cartridge:** diameter 63 mm, length 185 mm.
- **Suitable for the following MAPEI products:** MAPEFLEX PE WALL 380, MAPEFLEX PE SF 420.
- **Weight:** 1250 g.
- **Extrusion rate:** 24:1.
- **Pusher travel:** 3 mm each pull of trigger.

**Mapei Gun 585 2K**
Pro-grade sealant gun for 385, 470 and 585 ml bi-axial MAPEFIX cartridges.

**TECHNICAL DATA:**
- **Maximum size of bi-axial cartridge:** diameter 54 + 30 mm, length 247 mm.
- **Suitable for the following MAPEI products:** MAPEFLEX PE WALL 380, MAPEFLEX PE SF 420, MAPEFLEX VE SF 420.
- **Weight:** 1350 g.
- **Extrusion rate:** 24:1.
- **Pusher travel:** 3 mm each pull of trigger.

**Mapei Gun 600 PRO**
Extrusion gun for 550 ml and 600 ml cartridges of sealant.

**TECHNICAL DATA:**
- **Maximum size of bi-axial cartridge:** diameter 51 mm, length 335 mm.
- **Suitable for the following MAPEI products:** MAPEFLEX (550 and 600 ml tubes).
- **Weight:** 1170 g.
- **Extrusion rate:** 18:1.
- **Pusher travel:** 4.5 mm each pull of trigger.
**Mapei Gun 825 2K**
Extrusion gun for 825 ml bi-axial cartridges of chemical anchor.

**Primer A**
Polyurethane solvent-free primer for absorbent substrate to promote adhesion of MAPEFLEX one-component polyurethane sealants on all types of porous absorbent building substrates such as concrete, mortar, wood and brick.

**Primer EP**
Two-component epoxy primer in solvent for epoxy-polyurethane sealants.

**Primer FD**
One-component primer for silicone sealants.

**TECHNICAL DATA:**
- **Primer FD:**
  - Application of sealant: after 60 minutes.
  - Colour: transparent straw yellow.
  - Consumption: 5-10 g/m (1 cm - deep joint).
  - Packaging: 200 g bottles.

- **Primer EP:**
  - Workability time after mixing: 4-5 hours.
  - Application of sealant: after 24 hours.
  - Colour: transparent.
  - Application: brush and roller.
  - Consumption: 5-10 g/m (1 cm - deep joint).
  - Packaging: 10 kg met. drums (A+B).

- **Primer A:**
  - Application: brush.
  - Consumption: 5-10 g/m (1 cm - deep joint treated with primer).
  - Packaging: 250 g and 2 kg canisters.

- **Mapei Gun 825 2K:**
  - Maximum size of bi-axial cartridge: diameter 78 + 28 mm, length 216 mm.
  - Suitable for the following MAPEI products: MAPEFIX VE SF 825.
  - Weight: 1400 g.
  - Extrusion rate: 24:1.
  - Pusher travel: 3 mm each pull of trigger.
7. ELASTIC SEALANTS AND ADHESIVES

**Primer M**  
One-component solvent-free primer for polyurethane adhesives for non-absorbent surfaces.

**Primer MF**  
Two-component, solvent-free epoxy primer for epoxy-polyurethane sealants.

**Primer P**  
One-component primer for sealants applied on plastics.

**Primer PU60**  
One-component primer for polyurethane sealants.

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**TECHNICAL DATA:**
- **Application of sealant:** after 24 hours.
- **Colour:** brown.
- **Consumption:** 5÷10 g/m (1 cm - deep joint).
- **Packaging:** 10 kg metal drums.

---

**TECHNICAL DATA:**
- **Application of sealant:** after 20'.
- **Colours:** transparent.
- **Application:** brush.
- **Consumption:** 5÷10 g/m (1 cm - deep joint).
- **Packaging:** 150 g bottles.

---

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent yellow.
- **Waiting time before laying floors or applying smoothing compound:** 24-48 hours according to the surrounding temperature.
- **Workability time:** 90 minutes.
- **Storage:** 24 months.
- **Application:** brush.
- **Consumption:** 5÷10 g/m (1 cm - deep joint).
- **Packaging:** 6 kg (A+B) units and 1 kg kits (A+B).

---

**TECHNICAL DATA:**
- **Application of sealant:** after 40 minutes.
- **Colour:** brown.
- **Consumption:** 5÷10 g/m (1 cm - deep joint).
- **Packaging:** 250 g bottles, 2 kg metallic drums.
### MapePUR All in One Foam
Multi-functional and multi-purpose, self-expanding polyurethane foam for filling, insulating and soundproofing. Thanks to the special spray nozzle, it is available for manual use or for use with the specific gun MAPEPUR GUN STANDARD or MAPEPUR GUN SPECIAL.

**TECHNICAL DATA:**
- **Free expansion:** up to 45 litres.
- **Yield:** 70 metres (beads diameter 30 mm), 10-12 m² of insulating panels.
- **Insulating capacity:** 0.039 W/(m K).
- **Full hardening time:** 2/6 hours.
- **Colour:** yellow.
- **Packaging:** 750 ml spray can.

### MapePUR Cleaner
Solvent-based cleaning solution for removing traces of wet polyurethane foam from clothes and tools. Spray on the surface to be cleaned or screw to a polyurethane foam gun.

**TECHNICAL DATA:**
- **Colour:** transparent.
- **Packaging:** 500 ml spray can.

### MapePUR Fire Foam M
Expanding polyurethane foam adhesive for filling, insulating and soundproofing. Certified fire resistant up to EI 240. Available in hand-held spray cans (MAPEPUR ROOF FOAM M).

**TECHNICAL DATA:**
- **Free expansion:** up to 45 litres.
- **Insulating capacity MAPEPUR FIRE FOAM M:** 0.039 W/(m K).
- **Soundproofing capacity:** 58 dB.
- **Resistance to fire:** EI 240 (joints up to 20 mm).
- **Full hardening time:** 1.5/5 hours.
- **Colour:** pink.
- **Packaging:** 750 ml spray can.

### MapePUR Multi Adhesive Foam G
Multi-purpose, low-expanding polyurethane foam adhesive for bonding construction elements, also made of different materials, both for internal and external use. Available in gun version for use with the specific gun MAPEPUR GUN STANDARD or MAPEPUR GUN SPECIAL.

**TECHNICAL DATA:**
- **Yield:** 70 metres (beads diameter 30 mm), 10-12 m² of insulating panels.
- **Insulating capacity:** 0.036 W/(m K).
- **Tensile strength (ETAG 004):** 0.8 kg/cm².
- **Reaction to fire (DIN 4102-1):** B2.
- **Reaction to fire (EN 13501-1):** E.
- **Colour:** yellow.
- **Packaging:** 750 ml spray can.
7. ELASTIC SEALANTS AND ADHESIVES

MapePUR Roof Foam G
MapePUR Roof Foam M
Expanding polyurethane foam adhesive for bonding, filling, soundproofing and insulating. Available in gun version (MAPEPUR ROOF FOAM G) for use with MAPEPUR GUN STANDARD or MAPEPUR GUN SPECIAL and hand-held spray can version (MAPEPUR ROOF FOAM M).

TECHNICAL DATA:
Free expansion: up to 45 litres.
Insulating capacity MAPEPUR ROOF FOAM G: 0.036 W/(m K).
Insulating capacity MAPEPUR ROOF FOAM M: 0.039 W/(m K).
Soundproofing capacity: 58 dB.
Tensile strength: 1.2 kg/cm².
Full hardening time: 1.5/5 hours.
Colour: grey.
Packaging: 750 ml spray can.

MapePUR Universal Foam G
MapePUR Universal Foam M
Multi-purpose expanding polyurethane foam for filling, soundproofing and insulating. Available in gun version (MAPEPUR UNIVERSAL FOAM G) for use with MAPEPUR GUN STANDARD or MAPEPUR GUN SPECIAL and hand-held spray can version (MAPEPUR UNIVERSAL FOAM M).

TECHNICAL DATA:
Free expansion: up to 45 litres.
Insulating capacity MAPEPUR UNIVERSAL FOAM G: 0.036 W/(m K).
Insulating capacity MAPEPUR UNIVERSAL FOAM M: 0.039 W/(m K).
Soundproofing capacity: 58 dB.
Full hardening time: 1.5/5 hours.
Colour: yellow.
Packaging: 750 ml spray can.

7.9 Accessories for foams

MapePUR Dispenser M
Spare nozzle for MAPEPUR type “M”.

MapePUR Easy Spray
Ergonomic grip for polyurethane foam cans (manual application type).

TECHNICAL DATA:
Packaging: box of 5 grips.
Suitable for the following MAPEI products: MAPEPUR UNIVERSAL FOAM M, MAPEPUR ROOF FOAM M, MAPEPUR FIRE FOAM M.
Weight: 100 g.
MapePUR Gun Special
Professional Teflon-coated extrusion gun for MAPEPUR type G (spray can to be used with guns).

MapePUR Gun Standard
Extrusion gun for MAPEPUR type G (spray can).

MapePUR Gun
NEW
Professional Teflon-coated extrusion gun for MAPEPUR type G (spray can to be used with guns).

TECHNICAL DATA:
Suitable for the following Mapei products:
MAPEPUR G version (spray can to be used with guns).
Weight: 655 g.
Nozzle: Ø 2 mm.
Length of tube: 200 mm.
Spray can adapter valve: universal with triple gasket for any type of spray can.
Packaging: box containing 1 piece.

TECHNICAL DATA:
Suitable for the following MAPEI products:
MAPEPUR G type (spray can).
Weight: 440 g.
Nozzle: Ø 2 mm.
Length of tube: 145 mm.
Spray can adapter valve: universal conical type.
ADHESIVES AND FINISHING PRODUCTS FOR WOODEN FLOORS
### 8. ADHESIVES AND FINISHING PRODUCTS FOR WOODEN FLOORS

#### 8.1 Adhesives for wooden and laminate floors

<table>
<thead>
<tr>
<th>Adhesive</th>
<th>Description</th>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adesilex LC/R</strong></td>
<td>Quick-setting, solvent-free adhesive in water dispersion for bonding wooden floors. ADESILEX LC/R is suitable for bonding on cementitious screeds made from MAPECEM, MAPECEM PRONTO, TOPCEM or TOPCEM PRONTO, wooden substrates, chip-board, masonite panels and heated floors.</td>
<td>Consistency: thick paste. Colour: beige. Open time: approximately 30 minutes. EMICODE: EC1 Plus - very low emission. Set to light foot traffic: after 24 hours. Polishing: when completely dry (minimum 10 days). Storage: 24 months. Protect from frost. Application: N° 2 or 4 notched trowel for wood. Consumption: 0.8-1.0 kg/m². Packaging: 15 kg drums.</td>
</tr>
<tr>
<td><strong>Adesivil D3</strong></td>
<td>Solvent-free, water-resistant vinyl adhesive for floating floors in pre-finishes wood or rigid, melamine and laminated amino-plastic.</td>
<td>Consistency: thick liquid. Colour: white. Dry film: transparent. Open time: 5-10 minutes. Set to light foot traffic: after approx. 12 hours Complete hardening: approximately 24 hours. Resistance to water: class D3 (EN 204-205). Storage: 24 months. Protect from frost. Application: by extrusion from the nozzle on the canister. Consumption: 0.025 kg/linear metres; 0.1-0.2 kg/m². Packaging: 0.5 kg bottles.</td>
</tr>
</tbody>
</table>
Ultrabond Eco P909 2K
Two-component, solvent-free, polyurethane quick adhesive with very low emission level of volatile organic compounds, class EC1 Plus, for all types of parquet.

TECHNICAL DATA:
Mixing ratio: 9 : 1.
Pot life of mix: 40-50 minutes.
Open time: 60 minutes.
EMICODE: EC1 Plus - very low emission.
Consumption: 800-1000 g/cm².
Storage: 12 months.
Packaging: 9 + 1 kg kit.

Ultrabond Eco P909 2K Fast
Two-component, solvent-free, polyurethane quick adhesive with very low emission level of volatile organic compounds (VOC) for all types of wood.

TECHNICAL DATA
Mixing ratio: 9:1.
Pot life of mix: 30-45 minutes.
Open time: 60 minutes.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Consumption: 800-1000 g/m².
Packaging: 10 kg (8.8 kg + 1.2 kg) units.

Ultrabond Eco P909 2K Plus
Two-component, solvent-free, polyurethane adhesive with very low emission level of volatile organic compounds (VOC) for all types of wood.

TECHNICAL DATA:
Mixing ratio: 9 : 1.
Pot life of mix: 80-90 minutes.
Open time: 60 minutes.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Consumption: 800-1000 g/m².
Packaging: 10 kg (9 kg + 1 kg) units.

Ultrabond Eco S940 1K
One-component solvent-free, silylated polymer-based adhesive with very low emission level of volatile organic compounds.

TECHNICAL DATA:
Consistency: creamy paste.
Colour: light beige.
Open time (formation of skin): 35 mins.
Set to foot traffic: approx. 12 hours.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Application: notched trowel for wood.
Consumption: 800-1200 g/m².
Packaging: 15 kg plastic drums.
8. ADHESIVES AND FINISHING PRODUCTS FOR WOODEN FLOORS

**Ultrabond Eco S948 1K**
One-component, solvent-free, silylated polymer-based adhesive with very low emission level of volatile organic compounds (VOC).

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Open time:** 35 minutes.
- **Set to light foot traffic:** approx. 12 hours.
- **Polishing:** 3 days.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** MAPEI notched trowel for wood.
- **Consumption:** 800-1200 g/m².
- **Packaging:** 15 kg and 7 kg (2x7 kg) drums.

**Ultrabond Eco S955 1K**
One-component, solvent-free, silylated polymer adhesive with very low emission level of volatile organic compounds, for all types of parquet.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige.
- **Open time (formation of skin):** 50-60 minutes.
- **Set to light foot traffic:** after 12 hours.
- **Sanding:** after 3 days.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** N° 2 or 4 notched trowel for wood.
- **Consumption:** 800-1200 g/m².
- **Packaging:** 15 kg drums and 600 ml soft-cartridges.

**Ultrabond Eco S958 1K**
One-component, solvent-free, silylated polymer-based adhesive with very low emission level of volatile organic compounds.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige.
- **Open time:** 30 minutes.
- **Set to light foot traffic:** 12 hours.
- **Sanding (internal areas):** 3 days.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** N° 2 or 4 notched trowel for wood.
- **Consumption:** 800-1200 g/m².
- **Packaging:** 15 kg drums and 600 ml soft-cartridges.

**Ultrabond Eco S968 1K**
One-component silylated polymer-based adhesive with zero plasticiser and solvent content and very low emission level of volatile organic compounds (VOC).

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige.
- **Open time:** 30 minutes.
- **Set to light foot traffic:** 12 hours.
- **Polishing:** 3 days.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** MAPEI notched trowel for wood.
- **Consumption:** 800-1200 g/m².
- **Packaging:** 15 kg drums.
**Ultrabond P902 2K**
Two-component, epoxy-polyurethane adhesive for bonding all types and sizes of parquet on screeds made from MAPECEM, MAPECEM PRONTO, TOPCEM or TOPCEM PRONTO, cementitious screeds, old wooden, ceramic, marble, and terrazzo floors, etc.
Also suitable for heated substrates.

**TECHNICAL DATA:**
Consistency: creamy paste.
Colour: light grey.
Open time: 30 minutes.
Set to light foot traffic: 12 hours.
Polishing (in interior): 3 days.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Application: MAPEI notched trowel for wood.
Consumption: 800-1200 g/m².
Packaging: 15 kg plastic drums.

---

**Ultrabond Eco S Lite**
One-component, lightweight, silylated polymer-based adhesive of new generation and technology with very low emission of volatile organic compounds, zero methanol emissions, ideal for the installation of any type of species and format of pre-finished solid wood on all kinds of substrate, including heated screeds.

**TECHNICAL DATA:**
Consistency: creamy paste.
Colour: light beige.
Open time: 30 minutes.
Set to light foot traffic: 12 hours.
Polishing (in interior): 3 days.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Application: MAPEI notched trowel for wood.
Consumption: 800-1200 g/m².
Packaging: 11 kg plastic drums.

---

**Ultrabond Eco S Plus**
One-component, silylated polymer-based adhesive of new generation and technology with very low emission of volatile organic compounds, zero methanol emissions, ideal for the installation of all types of pre-finished or pre-polished multi-layered flooring and solid wood, medium format flooring.

**TECHNICAL DATA:**
Consistency: creamy paste.
Colour: light beige.
Open time: 30 minutes.
Set to light foot traffic: 12 hours.
Polishing (in interior): 3 days.
EMICODE: EC1 Plus - very low emission.
Storage: 12 months.
Application: MAPEI notched trowel for wood.
Consumption: 800 g/m².
Packaging: 15 kg plastic drums.

---

**Ultrabond P913 2K**
Two-component, epoxy-polyurethane adhesive for medium-sized solid wooden slats and all types of pre-finished wooden floors.

**TECHNICAL DATA:**
Pot life of mix: 60-70 minutes.
Open time: 1 hour.
Set to light foot traffic: after 24 hours.
Sanding: after 3 days.
Storage: 24 months.
Application: N° 2 or 4 notched trowel for wood.
Consumption: 1.0-1.5 kg/m².
Packaging: 10 kg drums (A+B).
**Ultrabond P980 1K**
One-component, solvent-free polyurethane adhesive with a very low emission level of volatile organic compounds for bonding pre-finished, multi-layered parquet.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige.
- **Open time:** 110 minutes.
- **Application:** extrusion.
- **Consumption:** laying wooden steps: 2 m² per soft-cartridge; laying three-layered pre-finished parquet: 4/6 m² per soft-cartridge; laying parquet mosaic on walls: 0.5 kg/m².

**Packaging:** boxes containing 20 x 600 cc aluminium tubes.

---

**Ultrabond P990 1K**
One-component, ready-to-use, solvent-free, flexible polyurethane adhesive for all types of parquet on screeds made from MAPECEM, MAPECEM PRONTO, TOPCEM and TOPCEM PRONTO, cementitious screeds, old wooden, ceramic, marble and terrazzo floors, etc. Also suitable for heated substrates.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige and brown.
- **Open time:** 110 minutes.
- **Application:** notched trowel.
- **Consumption:** 0.8-1 kg/m².

**Packaging:** 15 kg aluminium bags contained in plastic drums.

---

**Ultrabond S965 1K**
One-component, solvent-free, silylated polymer adhesive with very low emission level of volatile organic compounds, for all types of parquet.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige and brown.
- **Open time:** 90-100 minutes.
- **Application:** N° 2 or 4 notched trowel for wood.
- **Consumption:** 800-1200 g/m².

**Packaging:** 7 and 15 kg aluminium bags contained in plastic drums. Boxes containing 20x600 cc soft-cartridges.

---

**Ultrabond S997 1K**
One-component, solvent-free, ready-to-use, flexible, silylate polymer-based thixotropic adhesive for laying wooden steps and parquet mosaics.

**TECHNICAL DATA:**
- **Consistency:** thixotropic paste.
- **Colour:** ochre yellow.
- **Open time:** approx. 40 ± 10 minutes.
- **Application:** extrusion.
- **Consumption:**
  - laying wooden steps: 2 m² per soft-cartridge (diagonal beads every 5-10 cm);
  - laying three-layered pre-finished parquet: 4/6 m² per soft-cartridge (diagonal beads every 10-15 cm);
  - laying wooden baseboards: approximately 15 meters of beads of adhesive per soft-cartridge;
  - laying parquet mosaic on walls: 0.5 kg/m².

**Packaging:** boxes containing 20 x 600 cc aluminium tubes.
8.2 Paints, stuccos, oils, base coats and coloured sealants for parquet

**Silwood**
Acrylic sealant in water dispersion for wooden floors.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: white, 112 grey, oak, iroko, doussié, wengé, teak, walnut, cherry, faded beech, birch maple.
- Open time: 10-20 minutes.
- Sanding: after 24 hours. After sanding, the product may bevarnished.
- EMICODE: EC1 - very low emission.
- Storage: 24 months.
- Application: extrusion pistol loaded with cartridge of product.
- Consumption: according to the size of the joint to be filled, calculating that its density is equal to 1.75 g/cm³.
- Packaging: 310 ml cartridges.

**Ultracoat Aqua Plus**
Solvent and NMP-free, odourless, water-based binder, mixed with wood flour filler, for grouting wooden floors. Suitable for ULTRACOAT water-based varnishing cycles and ULTRACOAT HARD OIL FAST.

**TECHNICAL DATA:**
- Consistency: liquid gel.
- Colour: off-white.
- Density (g/cm³): 1.0.
- Brookfield viscosity (mPa·s): 2000-3000.
- Storage: 12 months.
- Application temperature range: from +10°C to +35°C.
- Sanding: after approx. 1 hour.
- Varnishing: after 2 hours with water-based varnish cycles.
- EMICODE: EC1 Plus - very low emission.
- Consumption: 100-120 g/m² per coat.
- Packaging: 5 l tanks, 2x5 l boxes.

**Ultracoat Base One**
One-component quick-drying water-based basecoat primer with low emission level of volatile organic compounds and no NMP.

**TECHNICAL DATA:**
- Consistency: liquid.
- Colour: translucent straw-yellow.
- Density: 1.030.
- Sanding: 1-2 hours.
- Re-varnishing (without sanding): minimum 2 hours - maximum 16 hours.
- EMICODE: EC1 Plus - very low emission.
- Consumption: 100 ml/m².
- Storage: 12 months.
- Packaging: 5 l tanks, 2x5 l boxes.

**Ultracoat Binder**
Solvent and NMP-free, water-based binder, mixed with wood flour filler from any type of wood, including Merbau, for grouting wooden floors. Suitable for ULTRACOAT water-based varnishing cycles and ULTRACOAT HARD OIL FAST.

**TECHNICAL DATA:**
- Consistency: liquid gel.
- Colour: transparent.
- Density (g/cm³): 1.0.
- Brookfield Viscosity (mPa·s): 6000/8000.
- Storage: 12 months.
- Application temperature range: from +10°C to +35°C.
- Sanding: after approx. 1 hour.
- Varnishing: after 100-120 mins. with water-based varnishing cycles.
- EMICODE: EC1 Plus - very low emission.
- Consumption: 100-120 g/m² per coat.
- Packaging: 5 litre tanks.
**Ultracoat Filler S1**  
Alcohol/solvent-based ultra quick-drying filler mixed with sawdust formed by sanding and polishing the floor.

**TECHNICAL DATA:**  
Appearance: colourless.  
Temperature of substrate: minimum +15°C.  
Drying time: touch dry approx. 15 minutes at +20°C and 50% RH.  
Cleaning: white spirit or similar.  
Consumption: approx 80-120 ml/m².  
Storage: 2 years in a sealed container at +20°C.  
Packaging: 5 litre tanks.

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**Ultracoat Easy**  
One-component water-based acrylic-polyurethane varnish for wooden floors with good resistance to wear and abrasion. Suitable for floors subjected to normal pedestrian use.

**TECHNICAL DATA:**  
Consistency: liquid.  
Colour: milky white.  
Density (g/cm³): approx. 1.045 (10 gloss) - approx. 1.040 (30 gloss) - approx. 1.038 (60 gloss).  
Storage: 12 months.  
Dust dry: 20 mins.  
Touch dry: 35–40 mins.  
Maximum permitted dilution ratio (Dir. 2004/42/CEE): 10% with clean water or with ULTRACOAT EL.  
Sanding: after 3 hours.  
Painting over without sanding: after 2 hours, and within a maximum of 5 hours.  
Ready for use: 36–48 hours.  
Gloss factor: 10 gloss - 30 gloss - 60 gloss.  
Consumption: first coat 80–100 ml/m²; successive coats 50–70 ml/m².  
Packaging: 5 litre tanks, 2x5 l boxes.

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**Ultracoat Easy Plus**  
One-component, water-based 100% polyurethane varnish with low emission level of volatile organic compounds (VOC), highly resistant to wear and abrasion, for wooden floors. Suitable for floors subject to frequent pedestrian use.

**TECHNICAL DATA:**  
Consistency: liquid.  
Colour: transparent.  
Density (g/cm³): 1.045.  
Storage: 12 months.  
Dust dry: 20 mins.  
Touch dry: 35–40 mins.  
Maximum permitted dilution ratio (Dir. 2004/42/CEE): 10% with clean water or with ULTRACOAT EL.  
Sanding: after 8 hours.  
Painting over without sanding: after 2 hours, and within a maximum of 5 hours.  
Ready for use: 36–48 hours.  
Gloss factor: extra matte (10 gloss) - 30 gloss - 60 gloss.  
EMICODE: EC1 Plus - very low emission.  
Consumption: first coat 80–100 ml/m²; successive coats 50–70 ml/m².  
Packaging: 5 litre tanks, 2x5 l boxes.

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**Ultracoat EL**  
Slow-evaporating mixture to increase the open time of varnish for parquet.

**TECHNICAL DATA:**  
Consistency: liquid.  
Colour: milky white.  
Density (g/cm³): approx. 1.045 (10 gloss) - approx. 1.040 (30 gloss) - approx. 1.038 (60 gloss).  
Storage: 12 months.  
Dust dry: 20 mins.  
Touch dry: 35–40 mins.  
Maximum permitted dilution ratio (Dir. 2004/42/CEE): 10% with clean water or with ULTRACOAT EL.  
Sanding: after 3 hours.  
Painting over without sanding: after 2 hours, and within a maximum of 5 hours.  
Ready for use: 36–48 hours.  
Gloss factor: 10 gloss - 30 gloss - 60 gloss.  
Consumption: first coat 80–100 ml/m²; successive coats 50–70 ml/m².  
Packaging: 5 litre tanks, 2x5 l boxes.

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**Ultracoat EL**  
One-component water-based acrylic-polyurethane varnish for wooden floors with good resistance to wear and abrasion. Suitable for floors subjected to normal pedestrian use.
**Ultracoat Hard Oil Fast**

Wood staining oil for finishing off the surface of wooden floors; available in neutral and various colours.

**Ultracoat Hard Oil Fast**

Two-component, 100% polyurethane water-based varnish with high resistance to wear and abrasion with low emission of volatile organic compounds (VOC) for wooden floors. Suitable for floors subject to extremely high pedestrian use.

**TECHNICAL DATA:**

- **Composition:**
  - A: liquid
  - B: off-white

- **Density of Ultracoat High Traffic 10 gloss (g/cm³):** 1.040
- **Density of Ultracoat High Traffic 30 gloss (g/cm³):** 1.030
- **Density of Ultracoat High Traffic 60 gloss (g/cm³):** 1.040

- **EMICODE:** EC1 Plus - very low emission.

- **Storage:** 12 months.

- **Dusty dry:** 25 mins.

- **Touch dry:** 40 mins.

- **Maximum permitted dilution (Dir. 2004/42/EEC):** 10% with clean water.

- **Sanding:** after 12 hours.

- **Varnishing (without sanding):** after 2 hours, within 5 hours.

- **Ready for service:** 36-48 hours.

- **Gloss factor:** (0-10-30-60 gloss).

- **Consumption:** first coat 80-100 ml/m²; successive coats 50-70 ml/m².

- **Packaging:** 11 l kits (A+B) 2x5.5 l.

**Ultracoat Hard Oil Fast**

Wood staining oil for finishing off the surface of wooden floors; available in neutral and various colours.

**Ultracoat Hard Oil Fast**

Two-component, 100% polyurethane water-based varnish with high resistance to wear and abrasion with low emission of volatile organic compounds (VOC) for wooden floors. Suitable for floors subject to extremely high pedestrian use.

**TECHNICAL DATA:**

- **Consistency:**
  - Comp. A: liquid
  - Comp. B: off-white

- **Density:**
  - Ultracoat HT 10 gloss (g/cm³): 1.040
  - Ultracoat HT 30 gloss (g/cm³): 1.030
  - Ultracoat HT 60 gloss (g/cm³): 1.040

- **Storage:** 12 months.

- **Dusty dry:** 25 mins.

- **Touch dry:** 40 mins.

- **Maximum permitted dilution (Dir. 2004/42/EEC):** 10% with clean water.

- **Sanding:** after 12 hours.

- **Varnishing (without sanding):** after 2 hours, within 5 hours.

- **Ready for service:** 36-48 hours.

- **Gloss factor:** (0-10-30-60 gloss).

- **Consumption:** first coat 80-100 ml/m²; successive coats 50-70 ml/m².

- **Packaging:** 11 l kit (A+B) 2x5.5 l.

**Ultracoat Hard Oil Fast**

Wood staining oil for finishing off the surface of wooden floors; available in neutral and various colours.

**Ultracoat Hard Oil Fast**

Two-component, 100% polyurethane water-based varnish with high resistance to wear and abrasion with low emission of volatile organic compounds (VOC) for wooden floors. Suitable for floors subject to extremely high pedestrian use.

**TECHNICAL DATA:**

- **Consistency:**
  - Comp. A: liquid
  - Comp. B: off-white

- **Density:**
  - Ultracoat HT 10 gloss (g/cm³): 1.040
  - Ultracoat HT 30 gloss (g/cm³): 1.030
  - Ultracoat HT 60 gloss (g/cm³): 1.040

- **Storage:** 12 months.

- **Dusty dry:** 25 mins.

- **Touch dry:** 40 mins.

- **Maximum permitted dilution (Dir. 2004/42/EEC):** 10% with clean water.

- **Sanding:** after 12 hours.

- **Varnishing (without sanding):** after 2 hours, within 5 hours.

- **Ready for service:** 36-48 hours.

- **Gloss factor:** (0-10-30-60 gloss).

- **Consumption:** first coat 80-100 ml/m²; successive coats 50-70 ml/m².

- **Packaging:** 11 l kit (A+B) 2x5.5 l.
Ultracoat HT Sport

Ultracoat Oil Wax
Water and oil-repellent oil/wax finish with very little odour used to protect wooden surfaces and give them a delicate, warm colour.

Ultracoat MT 2K
Two-component water-based acrylic/polyurethane varnish for wooden floors with high resistance to wear and abrasion; certified EMICODE EC1 Plus very low emission level of volatile organic compounds. Suitable for floors subjected to medium to high pedestrian use.

Ultracoat Oil Care Plus
Watery micro-emulsion based on waxy resin, modified oils and natural waxes for maintaining wooden floors finished with ULTRACOAT HARD OIL FAST.

Ultracoat HT Sport

| TECHNICAL DATA: |
|-----------------|-----------------|
| Consistency:    | comp. A         |
|                 | liquid          |
|                 | comp. B         |
|                 | liquid          |
| Colour:         | milky white     |
|                 | transparent     |
| Density:        | 1.035           |
|                 | 1.075           |
| Mixing ratio:   | (A : B) 10 : 1  |
| Viscosity of mix: | 40 secs. (Ø 3 Ford cup). |
| EMICODE:        | EC1 Plus        |
|                 | very low emission. |
| Buffing:        | 8 hours         |
| Ready for service: | 48 hours    |
| Storage:        | 12 months       |
| Packaging:      | 5.5 l.          |

Ultracoat MT 2K

| TECHNICAL DATA: |
|-----------------|-----------------|
| Consistency:    | comp. A         |
|                 | milky liquid,   |
|                 | comp. B - liquid. |
| Colour:         | off-white,      |
|                 | comp. B - transparent. |
| Mixing ratio (A : B): | 10 : 0.25. |
| EMICODE:        | EC1 Plus        |
|                 | very low emission. |
| Sanitair (France): | A. |
| Dust dry:       | 25 mins.        |
| Touch dry:      | 40 mins.        |
| Maximum permitted dilution ratio (Dir. 2004/42/EEC): | 10% with clean water. |
| Sanding:        | after 12 hours. |
| Re-varnishing (without sanding): | after 2 hours and within 5 hours. |
| Gloss:          | seidenmatt - matt. |
| Önorm C2354:    | class C.        |
| Storage:        | 12 months in its original, sealed packaging in a dry place. |
| Consumption:    | 80-100 ml/m² for the first coat and 50-70 ml/m² for the next coats. |
| Packaging:      | kit (A+B) - 4.5 l + 0.25 l. |

Ultracoat Oil Care Plus

| TECHNICAL DATA: |
|-----------------|-----------------|
| Consistency:    | liquid.         |
| Storage:        | 12 months.      |
| Application:    | wax spreader.   |
| Set to light foot traffic: | 2 hours. |
| Consumption:    | 25/35 m²/l per coat. |
| Packaging:      | 1 l bottle.     |

Ultracoat Oil Wax

| TECHNICAL DATA: |
|-----------------|-----------------|
| Consistency:    | fluid.          |
| Appearance:     | oil.            |
| Colour:         | neutral.        |
| Density (g/cm³): | 0.8.            |
| Application temperature: | +10°C - +25°C. |
| Application:    | roller, brush,  |
|                 | pad or trowel.  |
| Removal time:   | after 35-45 minutes. |
| Consumption:    | 1 litre every 10 to 30 m² depending on the absorption of the wood. |
| Packaging:      | 2.5 l tanks.    |
**Ultracoat Premium Base**
Two-component, NMP-free, water-based undercoat with low emission of volatile organic compounds (VOC) and high insulating capacity, for preparing solid and pre-sanded wooden floors and wooden floors under repair for water-based finishing cycles.

**TECHNICAL DATA:**
- **Consistency:** comp. A: liquid; comp. B: transparent.
- **Colour:** comp. A: milky white; comp. B: transparent.
- **Density (g/cm³):** comp. A: 1.03; comp. B: 1.07.
- **Storage:** 12 months.
- **Duration of mix:** 2 hours.
- **Maximum permitted dilution ratio (Dir. 2004/42/EEC):** 10% with clean water or ULTRACOAT EL.
- **Sanding:** after 12 hours.
- **Varnishing (without sanding):** after 2 hours, within 5 hours.
- **Consumption:** 80-100 g/m² per coat.
- **Packaging:** 6 litre kits (A+B), 2x6 l boxes.

**Ultracoat Soft Touch Base**
One-component, rapid drying, water-based primer for preparing wooden floors before applying ULTRACOAT SOFT TOUCH FINISH.
Product with low emission of volatile organic compounds (VOC).

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** milky.
- **Density (g/cm³):** 1.025.
- **Viscosity (Ford cup number 3):** 45 sec.
- **Maximum permitted dilution ratio (Dir. 2004/42/EEC):** 10% with clean water or ULTRACOAT EL.
- **Buffing:** after 2 hours.
- **EMICODE:** EC 1 - very low emission.
- **Consumption:** 80-100 g/m².
- **Packaging:** 5 l cans (2x5 l boxes).

**Ultracoat Soft Touch Finish**
Two-component, water-based, 100% polyurethane varnish with low emission of volatile organic compounds (VOC). Natural, soft finish for protecting wooden floors in residential and commercial environments.

**TECHNICAL DATA:**
- **Consistency:** comp. A: milky liquid; comp. B: liquid.
- **Colour:** comp. A: milky; comp. B: colourless.
- **Density (g/cm³):** comp. A: 1.025; comp. B: 1.075.
- **Viscosity comp. A+B (tazza Ford 3):** 55 sec.
- **Dust dry:** 25 min.
- **Touch dry:** 40 min.
- **Maximum permitted dilution ratio (Dir. 2004/42/EEC):** 10% with clean water or ULTRACOAT EL.
- **Buffing:** after 12 hours.
- **Re-varnishing (without buffing):** between 2 and 5 hours.
- **Gloss level:** < 5.
- **EMICODE:** EC 1 R - very low emission.
- **Consumption:** 50-70 ml/m² per coat.
- **Packaging:** 5.5 l units (2x5.5 l boxes).

**Ultracoat Solvent Base**
Alcohol-based ultra quick-drying base coat for wooden floors.

**TECHNICAL DATA:**
- **Appearance:** colourless.
- **Dilution:** supplied ready to use.
- **Drying time:** touch dry approx. 15 minutes at +20°C and 50% RH.
- **Cleaning:** white spirit.
- **Consistency:** liquid.
- **Sanding:** 15-20 minutes.
- **Re-varnishing (without sanding):** 15/20 minutes.
- **Storage:** 24 months.
- **Yield:** 10 m² per litre.
- **Packaging:** 10 litre tanks.
**Ultracoat Sport Color**

One-component water-based coloured acrylic paint for marking out playing areas on wooden sports surfaces.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** various colours.
- **Density:** 1.05-1.1 depending on the colour.
- **Cps viscosity:** 600–1000 depending on the colour.
- **Sanding:** after 2 hours.
- **Maximum permitted dilution ratio (Dir. 2004/42/CEE):** 10% with clean water.

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**Ultracoat Toning Base**

Two-component, water-based toning undercoat with high insulating properties with low emission of volatile organic compounds (VOC), no NMP for preparing solid and pre-sanded wooden floors and wooden floors under repair prior to applying ULTRACOAT water-based finishing cycles.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent.
- **Density:** 1.120 ± 0.005 kg/litre.
- **Packaging:** box containing 6 l bottles.

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**Ultracoat Top Deck Cleaner**

Ready-to-use alkaline solution used for maintenance work on external wooden flooring treated with ULTRACOAT TOP DECK OIL.

**TECHNICAL DATA:**
- **pH:** 13.
- **Dilution ratio:** 3/10 dl in 10 litres of lukewarm water.
- **Drying time:** 24 hours.
- **Cleaning of tools:** soap and lukewarm water.
- **Storage:** 12 months.
- **Consumption:** depending on the type of floor.
- **Packaging:** 4 litres.
**Ultracoat Top Deck Oil**
Oil finishing product for treating external wooden floors.

**TECHNICAL DATA:**
- **Application:** roller or brush.
- **Dust dry:** 6 hours.
- **Touch dry:** 24 hours.
- **Buffing:** do not buff.
- **Colours:** teak and neutral.
- **Storage:** 12 months.
- **Consumption:** 1 litre for 12-15 m².
- **Packaging:** 5 litres.

**Ultracoat Universal Base**
One-component, NMP-free, water-based rapid undercoat, with low emission of volatile organic compounds (VOC) for wooden floors.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** transparent.
- **Storage:** 12 months.
- **Maximum permitted dilution ratio (Dir. 2004/42/EEC):** 10% with clean water or ULTRACOAT EL.
- **Sanding:** after 2 hours.
- **Varnishing (without sanding) (for three-coat cycles):** after 2 hours, within 5 hours.
- **Consumption:** 80-100 g/m² per coat.
- **Packaging:** 5 litre units.
ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS
Adhesives in water dispersion

**Adesilex MT32**
Adhesive in water dispersion for laying all types of wall coverings, wallpaper, glass-fibre fabrics and non-woven fabrics.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** white.
- **Waiting time:** 0-10 minutes.
- **Storage:** 12 months. Protect from frost.
- **EMICODE:** EC1 Plus - very low emission.
- **Application:** N° 1 MAPEI trowels or TKB A1 or roller.
- **Consumption:** 150-250 kg/m².
- **Packaging:** 20, 10, 5 and 1 kg drums.

**Adesilex V4**
Multi-purpose adhesive for bonding vinyl and textile floorings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** white.
- **Waiting time:** 10-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 300-500 g/m².
- **Packaging:** 16 and 5 kg drums.

**Adesilex VS45**
High and fast initial tack adhesive for laying resilient wall coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** white.
- **Waiting time:** 0-10 minutes.
- **Open time:** 10-20 minutes.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, MAPEI trowels, TKB A1, A2.
- **Consumption:** 200-300 g/m².
- **Packaging:** 16 and 5 kg drums.

**Aquacol T**
Hard-set adhesive with long open time for textile and linoleum floorings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 2, 3 MAPEI trowels, TKB A2, B1, B2.
- **Consumption:** 300-450 g/m².
- **Packaging:** 25, 16, 5 kg drums.
**Mapecryl Eco**
Multi-purpose adhesive for vinyl, textile and linoleum wall and floor coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 0-10 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** approximately 24-48 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 250-450 g/m².
- **Packaging:** 25, 16, 5 kg drums.

**Rollcoll**
Multi-purpose adhesive in water dispersion for laying vinyl and textiles floor and wall coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** applied by trowel: from 10 to 20 minutes; applied by roller: from 0 to 10 minutes.
- **Open time:** – applied by trowel: 30-40 minutes; – applied by roller: 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2, roller or spray.
- **Consumption:** – by trowel: 300-500 g/m²; – by roller: 200-300 g/m².
- **Packaging:** 16, 5 and 1 kg drums.

**Ultrabond 333**
Multi-purpose adhesive with long open time for vinyl, textiles and linoleum floor and wall coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 30-40 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** approximately 24-48 hours.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, 2, 3 notched trowel, TKB A1, A2, B1, B2.
- **Consumption:** 300-500 g/m².
- **Packaging:** 16 and 25 kg drums.

**Ultrabond Eco 4 LVT**
Fibre-reinforced adhesive. Specifically developed for the installation of LVT, SPC and rigid LVT coverings it guarantees the highest performances in terms of adhesion and dimensional stability.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 0-10 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 1, MAPEI trowels, TKB A1, A2.
- **Consumption:** 200-300 g/m².
- **Packaging:** 16 and 5 kg drums.
**Ultrabond Eco 185**
SBR based adhesive with high initial tack and long open time for textile floorings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 10-20 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 1, MAPEI trowels, TKB A1, A2.
- Consumption: 200-450 g/m².
- Packaging: 16 kg drums.

**Ultrabond Eco 350**
Adhesive with long open time for vinyl floor and wall coverings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 10-20 minutes.
- Open time: 50-60 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 1, MAPEI trowels, TKB A1, A2.
- Consumption: 200-450 g/m².
- Packaging: 16 kg drums.

**Ultrabond Eco 375**
Adhesive with long open time for vinyl floor and wall coverings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 10-20 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 2, 3 notched trowels, TKB A2, B1, B2.
- Consumption: 300-450 g/m².
- Packaging: 16 kg drums.

**Ultrabond Eco 380**
“Pressure sensitive” adhesive with strong and fast initial tack, very long open time, for vinyl floor and wall coverings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 10-20 minutes.
- Open time: 60-70 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- Storage: 12 months. Protect from frost.
- Application: N° 1 MAPEI trowel, TKB A1, A2.
- Consumption: 200-300 g/m².
- Packaging: 16 kg drums.
**Ultrabond Eco 520**
Adhesive with high initial tack for linoleum floors and resilient wall coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 2, 3 MAPEI trowels, TKB B1, B2.
- **Consumption:** 300-450 g/m².
- **Packaging:** 16 kg drums.

**Ultrabond Eco 530**
Adhesive with high and fast initial bond. For the wet-bed installation of linoleum and resilient wall coverings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 0-10 minutes.
- **Open time:** 15-20 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 2, 3 MAPEI trowels, TKB B1, B2.
- **Consumption:** 300-450 g/m².
- **Packaging:** 16 kg drums.

**Ultrabond Eco 540**
SBR based adhesive with strong initial tack and long open time for linoleum floorings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **EMICODE:** EC1 - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 2, 3 MAPEI trowels, TKB B1, B2.
- **Consumption:** 300-450 g/m².
- **Packaging:** 16 kg drums.

**Ultrabond Eco 575**
Synthetic polymer adhesive in water dispersion for installing skirtings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** beige.
- **Open time:** 25 minutes.
- **Final hardening time:** 24 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 24 months. Protect from frost.
- **Application:** by extrusion.
- **Consumption:** 325 ml each 12 linear meter.
- **Packaging:** 310 ml cartridges.
### Ultrabond Eco Decor Dry

*NEW*

Ready to use adhesive for decorative fiber glass and wall paper in dry area.

### Ultrabond Eco Fast Track

Fast set, universal adhesive quick renovation of resilient floor coverings and for installing, coves and stairs.

### Ultrabond Eco Fix

Adhesive and fixative with high residual tack for loose-lay floorings.

### Ultrabond Eco Tack

Anti-slip tackifier with high residual tack for textile loose-lay tiles.

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### TECHNICAL DATA:

**Consistency:** creamy paste.

**Colour:** beige.

**Waiting time:** 5-10 minutes.

**Open time:** 15-20 minutes.

**Set to light foot traffic:** 1 hour.

**Ready to use:** 12 hours.

**EMICODE:** EC1 - very low emission.

**Storage:** 12 months. Protect from frost.

**Application:** No. 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.

**Consumption:** 200-400 g/m².

**Packaging:** 5 kg drums.

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### TECHNICAL DATA:

**Consistency:** creamy paste.

**Colour:** beige.

**Waiting time:** 30 minutes - 12 hours.

**Set to light foot traffic:** immediately after laying.

**Ready for use:** immediately after laying.

**EMICODE:** EC1 Plus - very low emission.

**Storage:** 12 months. Protect from frost.

**Application:** No. 1 MAPEI trowel TKB A1, A4 or roller.

**Consumption:** 80-150 g/m².

**Packaging:** 10 kg drums.

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### TECHNICAL DATA:

**Consistency:** liquid.

**Colour:** light beige.

**Waiting time:** 30 minutes (max. 12 hours).

**Set to light foot traffic:** immediately after laying.

**Ready for use:** immediately after laying.

**EMICODE:** EC1 Plus - very low emission.

**Storage:** 12 months.

**Application:** roller.

**Consumption:** 100-200 g/m².

**Packaging:** 15 kg drums.
**Ultrabond Eco Tack 4 LVT**
Anti-slide fixative for loose-lay LVT, SPC and rigid LVT.

**TECHNICAL DATA:**
- **Consistency:** liquid paste.
- **Colour:** white.
- **Waiting time:** install flooring when the adhesive becomes transparent (after 30 mins-6 hours, depending on surrounding conditions and absorption of the substrate).
- **Set to light foot traffic:** immediately after installation.
- **Ready to use:** immediately after installation.
- **EMICODE:** EC1 - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** roller.
- **Consumption:** 90-130 g/m².
- **Packaging:** 15 kg drums.

**Ultrabond Eco Tack TX+**
Anti-slide tackifier for loose-lay carpet tiles.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour (wet/dry):** white/transparent.
- **Waiting time:** 15 minutes (max. 12 hours).
- **Set to light foot traffic:** immediately after installation.
- **Ready for use:** immediately after installation.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** roller.
- **Consumption:** 50-100 g/m².
- **Packaging:** 5 and 10 kg tanks.

**Ultrabond Eco TX1 NEW**
Hard set “STANDARD” adhesive for textile and linoleum flooring.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 0-10 minutes.
- **Open time:** 10-20 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready to use:** 24-48 hours.
- **EMICODE:** EC1 PLUS - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** n. 2, 3 MAPEI trowels, TKB A2,B1,B2.
- **Consumption:** 350-500 g/m².
- **Packaging:** 16 kg drums.

**Ultrabond Eco TX2 NEW**
“PROFESSIONAL” adhesive with high initial tack and long open time, for textile floorings.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** light beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready to use:** 24-48 hours.
- **EMICODE:** EC1 PLUS - very low emission.
- **Storage:** 12 months. Protect from frost.
- **Application:** n. 2,3 MAPEI trowels, TKB A2,B1,B2.
- **Consumption:** 300-450 g/m².
- **Packaging:** 16 e 5 kg drums.
9. ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS

**Ultrabond Eco TX3**
“PREMIUM” adhesive with excellent wet grab and early buildup of strength for textile and linoleum floorings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 0-10 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 2, 3 MAPEI trowels, TKB B1, B2.
- Consumption: 350-500 g/m².
- Packaging: 16 kg drums.

www.blauer-engel.de/uz13

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**Ultrabond Eco V4SP**
Universal, high-performance adhesive for laying resilient and textile flooring and covering.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 10-20 minutes.
- Open time: 60-70 minutes (up to 120 minutes on non-absorbent substrates).
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2, roller.
- Consumption: 200-450 g/m².
- Packaging: 16, 5 and 1 kg drums.

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**Ultrabond Eco V4SP Conductive**
Light-coloured adhesive in water dispersion for installing conductive floors with very low emission of volatile organic compounds (VOC).

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light grey.
- Waiting time: 0-10 minutes.
- Open time: 15 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- Electrical resistance: 100,000 ohm.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: notched trowel.
- Consumption: 200-450 g/m².
- Packaging: 16 kg drums.

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**Ultrabond Eco V4SP Fiber**
High-performance, universal, fibre-reinforced adhesive for resilient and textile floorings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 0-10 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N° 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- Consumption: 200-450 g/m².
- Packaging: 16 kg drums.

**Ultrabond Eco VS30**
Multi-purpose adhesive for PVC, linoleum and textile flooring.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 0-10 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: approximately 24-48 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N°1, 2 notched trowel, TKB A1, A2, B1, B2.
- Consumption: 0.30-0.50 kg/m².
- Packaging: 16 and 25 kg drums.

**Ultrabond Eco VS90 Plus**
High temperature universal adhesive for resilient and textile floorings.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: light beige.
- Waiting time: 0-10 minutes.
- Open time: 20-30 minutes.
- Set to light foot traffic: 3-5 hours.
- Ready for use: 24-48 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months. Protect from frost.
- Application: N°1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- Consumption: 200-450 g/m².
- Packaging: 5 and 16 kg drums.

**Ultrabond Super Grip**
Acrylic, deformable assembly adhesive for internal use, with high initial sucker effect.

**TECHNICAL DATA:**
- Viscosity: creamy thixotropic paste.
- Open time: 10-15 minutes.
- Initial tensile strength: 17 N.
- Final tensile strength: 32.5 kg/cm².
- Hardening time: 24-48 hours.
- Dry solids content: 70%.
- EMICODE: EC1 Plus - very low emission.
- Colour: white.
- Application: extrusion gun.
- Consumption: 15 metres of bead (5 mm diameter section).
- Packaging: 310 ml cartridges.
### Ultrabond TX57
High and fast initial tack adhesive for textile and linoleum floorings.

**TECHNICAL DATA:**
- **Mixing ratio:** 5:1.
- **Consistency:** thick paste.
- **Colour:** light beige.
- **Waiting time:** 0-20 minutes.
- **Open time:** 20-30 minutes.
- **Set to light foot traffic:** 3-5 hours.
- **Ready for use:** 24-48 hours.
- **Storage:** 12 months. Protect from frost.
- **Application:** N° 2, 3 MAPEI trowels, TKB A2, B1, B2.
- **Consumption:** 300-550 g/m².
- **Packaging:** 16 kg drums.

### Flexcolor 4 LVT
Ready to use grout for Luxury Vinyl Tiles.

**TECHNICAL DATA:**
- **Consistency:** thick paste.
- **Colours:** 112 medium grey, 114 anthracite, 120 black, 130 jasmine, 134 silk, 146 rich brown.
- **Waiting time before finishing operation:** 10-15 minutes.
- **Set to light foot traffic:** 24 hours.
- **Ready to use:** 72 hours.
- **EMICODE:** EC1 - very low emission.
- **Application:** rubber float.
- **Cleaning and finishing:** Scotch-Brite® and MAPEI sponge.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints and of the LVT.
- **Packaging:** 2 kg units.

### Kerapoxy 4 LVT
Two-component epoxy grout for LVT floorings.

**TECHNICAL DATA:**
- **Mixing ratio:** 9:1.
- **Consistency:** thick paste.
- **Colours:** 112 medium grey, 114 anthracite, 120 black, 130 jasmine, 134 silk, 146 rich brown.
- **Waiting time before finishing operation:** approx. 45 minutes.
- **Set to light foot traffic:** 12 h.
- **Ready to use:** 3 days.
- **Application:** rubber float.
- **Cleaning and finishing:** Scotch-Brite® and MAPEI sponge.
- **Storage:** 24 months.
- **Consumption:** according to the size of the joints and of the LVT.
- **Packaging:** 2 kg units.

### Mapecoat 4 LVT
Two component aliphatic, anti-slip polyurethane finish in water dispersion for LVT.

**TECHNICAL DATA:**
- **Mixing ratio:** 5:1.
- **Dust dry:** 30 minutes.
- **Touch dry:** 50 minutes.
- **Re-varnishing (if required):** min. 2 hours - max. 48 hours (after more than 48 hours, the surface will need to be adequately prepared with a red or green ULTRACOAT PAD). TKB A2, B1, B2.
- **Set to light foot traffic:** 16 hours.
- **Ready for use (also in contact with shower water):** 24 hours.
- **EMICODE:** EC1 - very low emission.
- **Gloss level (approximate value):** 10-30 gloss.
- **Slip resistance according to DIN 51130 and AS 4586:** R11.
- **Barefoot slip resistance according to DIN 51097 and AS 4586:** A+B.
- **Slip resistance according to EN 13036-4 and AS 4586 (pendulum method):** dry: 90; wet: 55.
- **Slip resistance (Method B.C.R.):** leather, dry surface (µ): 0.56; rubber, dry surface (µ): 0.74; rubber, wet surface (µ): 0.81.
- **Consumption:** 80-100 g/m².
- **Packaging:** 1.2 kg kits (A + B).
**Mapesonic GD 4 LVT**
Low-thickness, high-density, sound proofing system, for LVT reinforced with glass fibre mesh, designed to block and reduce transmission of foot step noise through floors.

**TECHNICAL DATA:**
- Thickness: 1.5 mm.
- Size: 10 m x 1 m sheets.
- Weight: 1.1 kg/m².
- Dimensional stability (ISO 23999): <0.2%.
- Reduction of noise from footsteps (ISO 10140-1): 16 dB (for 2.5 mm thick LVT).
- EMICODE: EC1 Plus - very low emission.
- Packaging: 10 x 1 m (10 m²) rolls.

**Mapesonic SA 4 LVT**
Self-adhesive, low-thickness, high-density, sound proofing system, for LVT reinforced with glass fibre mesh, designed to block and reduce transmission of foot step noise through floors.

**TECHNICAL DATA:**
- Thickness: 1.7 mm.
- Size: 10 m x 1 m sheets.
- Weight: 1.1 kg/m².
- Dimensional stability (ISO 23999): <0.2%.
- Reduction of noise from footsteps (ISO 10140-1): 16 dB (for 2.5 mm thick LVT).
- EMICODE: EC1 Plus - very low emission.
- Packaging: 10 x 1 m (10 m²) rolls.

**Planiprep 4 LVT**
Ready-to-use smoothing compound for levelling off existing substrates with joint before laying LVT coatings. Existing interior ceramic and natural stone substrates can be levelled and smooth over (down to a feather edge up to a thickness of 2 mm) filling joints and gaps between the tiles creating a fine a smooth surface suitable for bonding loose-lay LVT tiles and planks using reactive adhesives, such as ULTRABOND ECO MS 4 LVT and ULTRABOND ECO MS 4 LVT WALL in a very short time (after 2 hours).

**TECHNICAL DATA:**
- Where to use: internal floors and walls for loose-lay LVT.
- Consistency: thick paste.
- Colour: white.
- Thickness applied: 0-2 mm (up to 3-4 mm in gaps and joints).
- Set to light foot traffic: approx. 1 hour.
- Waiting time before sanding and applying LVT: approx. 2 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: trowel.
- Consumption: 80-100 g/m².
- Packaging: 10 kg drums.

**Planiprep Remove 4 LVT**
Ready-to-use grout smoother for loose-lay LVT easy to remove without leaving any residual. This product is used to level off and smooth over (down to a feather edge in layers up to 2 mm thick) existing internal ceramic and stone surfaces. It fills joints and gaps between tiles and forms a fine, smooth finish suitable for loose-lay LVT tiles and planks.

**TECHNICAL DATA:**
- Where to use: internal floors, for loose-lay LVT.
- Consistency: thick paste.
- Colour: white.
- Thickness applied: 0-2 mm.
- Set to light foot traffic: 12-24 hours.
- Waiting time before sanding and installing loose-lay or glue-down LVT: 12-24 hours.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: trowel.
- Consumption: 80-100 g/m².
- Packaging: 10 kg drums.
9. ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS

9.3 Reactive adhesives

**Adesilex G19**
Two-component, epoxy-polyurethane adhesive for resilient and textile flooring on internal and external absorbent and non-absorbent substrates. Specifically developed for the installation of rubber athletic tracks.

**TECHNICAL DATA:**
- Pot life of mix: 30 minutes.
- Open time: 50 minutes.
- Setting time: 5 hours.
- Set to light foot traffic: 12-24 hours.
- Ready for use: 3 days.
- Storage: 24 months.
- Application: N° 1, 2 MAPEI trowels, TKB A2, B1, B2, B3.
- Consumption: 300-450 g/m².
- Packaging: 10 kg drums.

**Adesilex G19 Fast**
Fast setting, two-component epoxy-polyurethane adhesive for resilient and textile flooring on internal and external absorbent and non-absorbent substrates. Specifically developed for the installation of rubber athletic tracks.

**TECHNICAL DATA:**
- Pot life of mix: 25-30 minutes.
- Setting time: 4-5 hours.
- Set to light foot traffic: 6-12 hours.
- Ready for use: 36 hours.
- Storage: 24 months.
- Application: nr. 1, 2, 3, 4 MAPEI trowels, TKB A1, A2, B1, B2, C1.
- Consumption: 0.35-1.0 kg/m².
- Packaging: 10 kg kits.

**Spacers 4 LVT**
Spacers for calibrating grout lines in LVT, SPC and rigid LVT. For 2 mm, 3 mm and 4 mm grouts.

**TECHNICAL DATA:**
- Packaging: 200 pcs sachets.
**Adesilex G19 FR Fast**
Solvent free, two-component, fast setting, epoxy-polyurethane adhesive for resilient and textile floorings in transportation equipment industry. Complies with the requirements of EN 45545-2:2013 (“Requirements for fire behaviour of materials and components”) for the Hazard Levels HL1-HL2, requirements set R10. Also meets the requirements of smoke-gas toxicity specified in the Chinese Standards TB/T3237:2010 and TB/T3139:2006. It is suitable for marine equipment in compliance with the Marine Equipment Directive (MED) 96/98/EC and subsequent amendments.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: liquid.
- **Colour:** comp. A: beige; comp. B: transparent.
- **Pot life of mix:** 25-30 minutes.
- **Setting time:** 4-5 hours.
- **Set to light foot traffic:** 6-12 hours.
- **Ready for use:** 36 hours.
- **Storage:** 24 months.
- **Application:** nr. 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 350-600 g/m².
- **Packaging:** 10 kg kits.

**Adesilex G20**
Low viscosity, two-component epoxy-polyurethane adhesive for resilient and textile flooring on internal and external absorbent and non-absorbent substrates. Particularly suitable for installing thin flooring, also onto waterproofing underlays such as MAPELAY, in order to avoid the ribs of adhesive may show through.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: liquid.
- **Colour:** comp. A: beige; comp. B: transparent.
- **Pot life of mix:** 50-60 minutes.
- **Setting time:** 9 hours.
- **Set to light foot traffic:** 12-24 hours.
- **Ready for use:** 36 hours.
- **Storage:** 24 months.
- **Application:** nr. 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 350-600 g/m².
- **Packaging:** 5 and 10 kg kits.

**Adesilex G20 Fast**
Low viscosity, fast setting, two-component epoxy-polyurethane adhesive for resilient and textile flooring on internal and external absorbent and non-absorbent substrates. Particularly suitable for installing thin flooring, also onto waterproofing fiberglass reinforced underlays such as MAPELAY, in order to avoid the ribs of adhesive may show through.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: liquid.
- **Colour:** comp. A: beige; comp. B: transparent.
- **Pot life of mix:** 25-30 minutes.
- **Setting time:** 4-5 hours.
- **Set to light foot traffic:** 6-12 hours.
- **Ready for use:** 3 days.
- **Storage:** 24 months.
- **Application:** nr. 1, 2, 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 350-600 g/m².
- **Packaging:** 10 kg kits.

**Ultrabond Eco 571 2K**
Two-component, low-viscosity polyurethane adhesive with no water or solvents for bonding internal and external PVC and rubber flooring.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: fluid liquid.
- **Colour:**
  - comp. A: grey;
  - comp. B: brown.
- **Pot life of mix:** approx. 30 minutes.
- **Open time:** 50-60 minutes.
- **Setting time:** approx. 4 hours.
- **Set to light foot traffic:** after 12-24 hours.
- **Ready for use:** after 3 days.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** N° 1, 2 or 3 MAPEI trowels, TKB A1, A2, B1, B2.
- **Consumption:** 300-600 g/m².
- **Packaging:** 10 kg drums.
9. ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS

**Ultrabond Eco Decor Wet**
One component, silylated polymer-based adhesive for decorative fibre glass and wall paper in wet area even on non-absorbent substrate.

**Ultrabond Eco MS 4 LVT**
One-component, silylate polymer based adhesive for LVT, SPC and rigid LVT. Particularly suitable for laying LVT and resilient flooring in wet areas even on non-absorbent substrates.

**Ultrabond Eco MS 4 LVT Wall**
One-component, silylated polymer-based adhesive for the installation of LVT, SPC and rigid LVT on walls. Also suitable for the installation on floors. Particularly suitable for laying LVT in wet areas even on non-absorbent substrates.

**Ultrabond Eco S1000 1K**
One-component, fibre-reinforced, silylate polymer-based adhesive for rubber, polyolefine and linoleum floor coverings.

**TECHNICAL DATA:**
Consistency: gel.
Colour: transparent.
Waiting time: 90 minutes.
Ready to use: 24 hours.
EMICODE: EC1 PLUS - very low emission.
Storage: 12 months.
Application: n. 1 MAPEI trowels, TKB A1, A4 roller.
Consumption: 200 g/m².
Packaging: 3 kg drums.

**TECHNICAL DATA:**
Consistency: creamy paste.
Colour: ivory.
Open time: 20-30 minutes.
Set to light foot traffic: 5 hours.
Ready for use: 24 hours.
EMICODE: EC1 PLUS - very low emission.
Storage: 12 months.
Application: N° 1 MAPEI trowel, TKB A1, A2.
Consumption: 250-350 g/m².
Packaging: 15 kg drums.

**TECHNICAL DATA:**
Consistency: creamy paste.
Colour: white.
Open time: 20-30 minutes.
Set to light foot traffic: 5 hours.
Ready for use: 24-48 hours.
EMICODE: EC1 PLUS - very low emission.
Storage: 12 months.
Application: N° 1, 2 MAPEI trowels, TKB A1, A2, B1.
Consumption: 250-450 g/m².
Packaging: 15 kg drums.
## 9.4 Polychloroprenic and elastomeric contact adhesives

**Glicovil Special**
Special powder adhesive for heavy vinyl wall coverings with a paper or non-woven fabric backing.

**TECHNICAL DATA:**
- **Consistency:** powder.
- **Colour:** white.
- **Dilution ratio:** 250 g of powder with 5-10 litres of water (according to use).
- **Storage:** 24 months.
- **Application:** trowel, brush or roller.
- **Consumption:** 80-100 g/m².
- **Packaging:** 250 g boxes.

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**Adesilex LP**
Polychloroprenic contact adhesive in solvent for laying profiles, covings and resilient floors and coverings where immediate setting is required.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 5 hours.
- **Set to light foot traffic:** immediate.
- **Ready for use:** immediate.
- **Storage:** 24 months.
- **Application:** N° 1 MAPEI trowels, TKB A2, A3.
- **Consumption:** 200-300 g/m².
- **Packaging:** 1, 5 and 10 kg drums.

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**Adesilex VZ**
Double coat, polychloroprenic contact adhesive in solvent for laying profiles, covings and resilient floors and coverings where immediate setting is required.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** beige.
- **Waiting time:** 10-20 minutes.
- **Open time:** 50 minutes.
- **Set to light foot traffic:** immediate.
- **Ready for use:** immediate.
- **Storage:** 24 months.
- **Application:** N° 1 notched trowel, TKB A2, A3.
- **Consumption:** 200-300 g/m².
- **Packaging:** 1, 5 and 10 kg drums.

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**Ultrabond Eco Contact**
Solvent-free contact adhesive for resilient and textile floor and wall coverings. Suitable for bonding covings, fillets, steps and corner pieces.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** white.
- **Waiting time:** from 30 minutes to 2 hours depending on the type of application, temperature, environmental moisture and substrate absorption. Installation is possible even 18 hours after the spreading of the adhesive.
- **Set to light foot traffic:** immediate.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months in its original sealed packaging. Avoid prolonged exposure to frost.
- **Consumption:** 150-200 g/m² per coat on every kind of surface.
- **Packaging:** 10 and 5 kg drums.

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## 9.5 Powder adhesives

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9. ADHESIVES FOR RESILIENT AND TEXTILE COVERINGS

9.6 Cementitious adhesives

**Granirapid**
Two-component, high-performance, deformable, quick-setting and drying cementitious adhesive for rubber slabs bonded to cement

**TECHNICAL DATA:**
- **Consistency:** comp. A: powder; comp. B: thick liquid.
- **Mixing ratio:** comp. A: 25 kg + comp. B: 5.5 kg.
- **Pot life of mix:** 45 minutes.
- **Application temperature range:** from +5°C to +30°C.
- **Open time:** 20 minutes.
- **Setting time:** 2 hours.
- **Set to light foot traffic:** after 12-24 hours.
- **Ready for use:** immediate.
- **Storage:** 12 months.
- **Height of roll:** 35, 65, 85 and 240 mm.
- **Length of roll:** 50 m.
- **Colours available:** grey and white.
- **EMICODE:** EC1 Plus - very low emission.
- **Consumption:** 8 kg/m².
- **Packaging:** GRANIRAPID white: 28 kg kit component A; 22.5 kg bag component B; 5.5 kg drum
GRANIRAPID grey: 30.5 kg kit component A; 25 kg bag component B: 5.5 kg drum.

9.7 Adhesive strips

**Mapecontact**
Reinforced adhesive tape for laying profiles, base-boards, covings and resilient and textile coverings on steps.

**TECHNICAL DATA:**
- **Colour:** adhesive: transparent; reinforcement: orange.
- **Quantity of adhesive per m²:** 0.38 kg/m².
- **Application temperature range:** from +15°C to +35°C.
- **Waiting time:** none, bonds immediately.
- **Set to light foot traffic:** immediate.
- **Ready for use:** immediate.
- **Storage:** 12 months.
- **Height of roll:** 35, 65, 85 and 240 mm.
- **Length of roll:** 50 m.
- **Packaging:**
  - 35 mm: boxes containing 8x50 m long rolls;
  - 65 mm: boxes containing 4x50 m long rolls;
  - 85 mm: boxes containing 3x50 m long rolls;
  - 240 mm: boxes containing 1x50 m long roll.

9.8 Adhesives for synthetic grass

**Ultrabond Turf 2 Stars**
2-component, rapid-setting polyurethane adhesive with very low emission of volatile organic compounds (VOC) for bonding synthetic grass.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: fluid liquid.
- **Colour:** comp. A: green/red/white; comp. B: brown.
- **Inflammable:** no.
- **Pot life of mix:** 30 minutes.
- **Application temperature range:** from 15°C to +35°C.
- **Open time:** 40-45 minutes.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Height of roll:** 35 mm.
- **Length of roll:** 50 m.
- **Application:** No. 10 MAPEI notched trowel.
- **Consumption:** 8 kg/m².
- **Packaging:** GRANIRAPID white: 28 kg kit component A: 22.5 kg bag component B: 5.5 kg drum
GRANIRAPID grey: 30.5 kg kit component A: 25 kg bag component B: 5.5 kg drum.

**Ultrabond Turf 2 Stars Pro**
Two-component polyurethane adhesive with very low emission of VOC, for installing highly flexible synthetic grass sports surfaces.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** green.
- **Pot life of mix:** approx. 40 minutes.
- **Application temperature range:** from +15°C to +35°C.
- **Open time:** approx. 45 minutes.
- **EMICODE:** EC1 Plus - very low emission.
- **Set to light foot traffic:** 12 hours.
- **Storage:** 12 months.
- **Application:** n° 3 or 4 notched trowel.
- **Consumption:** 0.4-0.5 kg per metre of 40 cm wide jointing strip (10 kg of adhesive for 20-25 metres).
- **Packaging:** 15 and 5 kg drums (green).
**Ultrabond Turf 2 Stars W**
2-component, rapid-setting polyurethane adhesive with very low emission level of volatile organic compounds (VOC) for bonding synthetic grass even with low temperature.

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: fluid liquid.
- **Colour:** comp. A: green/red/white; comp. B: brown.
- **Inflammable:** no.
- **Pot life of mix:** 30 minutes.
- **Application temperature range:** from +0°C to +25°C.
- **Open time:** 30-35 minutes.
- **Set to light foot traffic:** after 12-24 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** N° 3 or 4 notched trowel.
- **Consumption:** 0.4-0.5 kg per metre of 40 mm wide jointing strip (10 kg of adhesive for 20-25 metres).
- **Packaging:** 15 kg drums (green, red and white).

**Ultrabond Turf LS**
One-component, ready-to-use silylated polymer-based adhesive for bonding decorative synthetic grass.

**TECHNICAL DATA:**
- **Consistency:** thixotropic paste.
- **Colour:** green.
- **Application temperature:** from +0°C to +35°C.
- **Open time:** 25 minutes.
- **Set to foot traffic:** 12 hours.
- **Storage:** 12 months.
- **Application:** sealant extrusion gun.
- **Consumption:** depending on application technique.
- **Packaging:** box of 12 300 ml cartridges.

**Ultrabond Turf PU 1K**
One-component, ready-to-use, polyurethane adhesive for bonding jointing strips between sheets of synthetic grass.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** green.
- **Application temperature:** from +0°C to +35°C.
- **Open time:** 80-100 minutes.
- **Set to light foot traffic:** 12 hours.
- **Storage:** 12 months.
- **Application:** N° 3 or 4 notched trowel.
- **Consumption:** 0.30-0.35 kg per linear metre of 40 cm wide jointing strip (10 kg of adhesive for 22-25 linear metres of jointing strip).
- **Packaging:** 7 and 15 kg drums and box of 12 600 ml aluminium soft-cartridges.

**Ultrabond Turf PU 1K LC**
One-component, ready-to-use polyurethane adhesive for bonding jointing strips between rolls of synthetic grass.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** green.
- **Application temperature:** from +0°C to +35°C.
- **Open time:** 60 minutes.
- **Set to light foot traffic:** 12 hours.
- **Storage:** 12 months.
- **Application:** N° 3 or 4 notched trowel.
- **Consumption:** 0.30-0.35 kg per metre of 40 cm wide jointing strip (10 kg of adhesive for 22-25 metres).
- **Packaging:** 15 and 7 kg drums.
### Ultrabond Turf PU 2K
Two-component polyurethane adhesive for bonding jointing strips between sheets of synthetic grass with very low emission level of volatile organic compounds (VOC).

**TECHNICAL DATA:**
- **Consistency:** comp. A: thick paste; comp. B: fluid liquid.
- **Colour:** green, red and white.
- **Pot life of mix:** 60 minutes.
- **Application temperature range:** from +0°C to +35°C.
- **Open time:** 70-80 minutes.
- **Set to light foot traffic:** 12-24 hours.
- **Storage:** 12 months.
- **Application:** Nº 3 or 4 notched trowel.
- **Consumption:** 0.4-0.5 kg per metre of 40 cm wide jointing strip (10 kg of adhesive for 20-25 metres of jointing strip).
- **Packaging:** 15 kg drums (green, red and white).

### Ultrabond Turf Repair
One component polyurethane adhesive with modified viscosity for repairing artificial turf surfaces.

**TECHNICAL DATA:**
- **Consistency:** creamy paste.
- **Colour:** green.
- **Inflammable:** no.
- **Application temperature range:** from +0°C to +35°C.
- **Set to light foot traffic:** 12 hours.
- **Storage:** 12 months.
- **Application:** Nº 3 or 4 notched trowel.
- **Consumption:** depending on the stip used for the repairing work.
- **Packaging:** box of 12 300 ml cartridges.

### Ultrabond Turf Tape 100
Jointing strip for fixing synthetic grass sheets in place and marking out lines for various sporting disciplines, even the strictest ones (i.e. Rugby).

**TECHNICAL DATA:**
- **Thickness:** 0.100 mm.
- **Height of roll:** 400 mm.
- **Length of roll:** 300 metres.

### Ultrabond Turf Tape 300
Jointing strip for fixing synthetic grass sheets in place and marking out lines for various sporting disciplines.

**TECHNICAL DATA:**
- **Thickness:** 0.5 mm.
- **Height of roll:** 300 mm.
- **Length of roll:** 300 metres.
**Ultrabond Turf Tape Pro**

Jointing strip for fixing synthetic grass sheets in place and making out lines for various sporting disciplines. When used in combination with adhesives from the ULTRABOND TURF range, it complies with the new FIFA requirements.

**TECHNICAL DATA:**
- Thickness: 0.36 mm.
- Height of roll: 300 mm.
- Length of roll: 300 metres.
COMPLEMENTARY PRODUCTS FOR LAYING CERAMIC TILES, STONE MATERIAL, PARQUET, RESILIENT AND TEXTILE COVERINGS
10.1 Complementary products for laying ceramic tiles and stone material

**Fuga Fresca**
Acrylic resin paint in water dispersion to bring back the colour of tile joints in ceramic tiles.

**TECHNICAL DATA:**
- Colour: available in 34 different colours.
- Application: by brush or bottle.
- Consumption: according to the size of the joint.
- Packaging: 1 kg tins and 160 g bottles.

**Keranet**
Acid-based cleaning solution for ceramic tiles. Particularly recommended for eliminating lime efflorescence and for the final cleaning step of Tuscany terracotta. In powder (concentrated) or liquid (15% in solution).

**TECHNICAL DATA:**
- pH of liquid: 1.13.
- Waiting time before rinsing: 5 minutes, according to the consistency of the dirt; keep applying until stains have been completely removed. Rinse well after cleaning.
- Storage: 24 months.
- Consumption: according to requirements.
- Packaging:
  - concentrated powder: 18x1 kg packages;
  - liquid ready for use: 5, 10 and 25 kg canisters and 12x1 kg packages;
  - 0.75 kg spray bottles.

**Kerapoxy Cleaner**
Special cleaning solution for epoxy grout, suitable for cleaning operations after completing laying work and for removing traces and stains of epoxy grout (such as KERAPOXY, KERAPOXY P, KERAPOXY DESIGN and KERAPOXY CQ) from the surface of ceramic and glass coverings. Also suitable for removing residual or shadows of KERAPOXY 4 LVT and FLEXCOLOR 4 LVT from the surface of LVT floors and coverings.

**TECHNICAL DATA:**
- pH of liquid: 12
- Waiting time before rinsing: several minutes. In the case of larger residues, leave the solution to react for longer or repeat the cleaning operation.
- Storage: 24 months.
- Consumption: according to requirements.
- Packaging:
  - 0.75 kg spray bottles;
  - 5 kg tanks.

**Mapeguard UM 35**
Waterproofing, uncoupling and anti-fracture membrane for cracked and damp substrates and substrates that are not fully cured before installing ceramic and stone tiles for internal and external surfaces without having to copy the layout of distribution joints in the substrate.

**TECHNICAL DATA:**
- Length: 30 m.
- Width: 1 m.
- Application: see technical Data Sheet.
- Packaging: 30 m rolls.
**Mapetex System**
Removable anti-fracture system for laying ceramic and stone flooring.

**Mapetherm Tile Fix 15**
Expansion plugs with 7 mm diameter zinc-plated steel screws for fastening up to 160 mm thick panels, supplied with a 10 mm diameter nylon plug and heat-stop washer.

**Mapetiles Removable System**
Removable soundproofing and isolating system for installing ceramic flooring.

**Mapecoat Decor Protection**
Two component aliphatic, protective polyurethane finish in water dispersion for decorative fibre glass and vinyl wallpaper in wet area.

**Technical Data**:

- **Mapetex**:
  - Width: 100 cm and 200 cm.
  - **Mapetex Strip**:
    - Width: 50 mm and 410 mm.
  - Application: see Technical Data Sheet.
  - Packaging:
    - Mapetex: 2 m x 50 m rolls; 1 m x 50 m rolls.
    - Mapetex strip: 50 mm x 25 m rolls; 410 mm x 10 m rolls; 410 mm x 5 m rolls.

- **Mapetherm Tile Fix 15**
  - Length of plug: 230 mm.
  - Diameter of screw: 7 mm.
  - Diameter of plug: 10 mm.
  - Diameter of hole: 10 mm.
  - Minimum depth of hole in reinforced cement and masonry: from 45 mm to 100 mm.
  - Maximum thickness to be fastened: 160 mm.
  - Packaging: boxes of 100 plugs.

- **Mapecoat Decor Protection**
  - Mixing ratio: 5:1.
  - Re-varnishing (if required): min 2 hours.
  - Ready to use (also in contact with shower water): 24 hours.
  - EMICODE: EC1 - very low emission.
  - Storage: 12 months.
  - Application: shortpile roller (T3 or T5 type).
  - Consumption: 80-100 g/m².
  - Packaging: 1.2 kg kit (A+B).
Mapecoat Wet & Dry R11
Two component aliphatic, anti-slip polyurethane finish in water dispersion for resilient floor-coverings.

Mapecoat Wet & Dry R11
TECHNICAL DATA:
- Consistency: fluid paste.
- Colour: black.
- Density: 1.05 kg/dm³.
- pH: no.
- Flammable: no.
- Consumption: see Technical Data Sheet.
- Packaging: 2.5 kg drums.

Mapecoat Wet & Dry R11
Slip resistance according to DIN 51130: R11.
- dry: 90;
- wet: 55.
- Slip resistance (Method B.C.R.):
  - leather, dry surface (µ): 0.56;
  - rubber, dry surface (µ): 0.74;
  - rubber, wet surface (µ): 0.81.
- EMICODE: EC1 - very low emission.
- Gloss level (approximate value): 10-30 gloss.

Mapelay
PVC waterproofing and uncoupling sheet reinforced with glass fibres, for laying internal resilient and fabric floors on cracked, particularly dirty or damp substrates or subject to capillary rising damp.

Mapelay
TECHNICAL DATA:
- Length: 25 m.
- Width: 2 m.
- Thickness: 1.2 mm.
- Weight: 1.1 kg/m².
- Packaging: 25 m rolls. Weight of roll approx. 57 kg.

Mapelectric CP1
Solvent-free conductive admixture added to primers, smoothing compounds, adhesives and grouting mortars for laying ceramic floors.

Mapelectric CP1
TECHNICAL DATA:
- Consistency: fluid paste.
- Colour: black.
- Density: 1.05 kg/dm³.
- pH: no.
- Flammable: no.
- Consumption: see Technical Data Sheet.
- Packaging: 2.5 kg drums.

Primer G Conductive
Dark-coloured, solvent-free conductive synthetic resin primer in water dispersion.

Primer G Conductive
TECHNICAL DATA:
- Consistency: liquid.
- Colour: black.
- Application temperature range: from +5°C to +40°C.
- Drying time: minimum 2 hours.
- Electrical resistance: 50,000 ohm.
- Storage: 24 months. Protect from frost.
- Application: brush.
- Consumption: 0.1-0.15 kg/m².
- Packaging: 10 kg drums.
Mapei Spray Mop
Compact and light with an innovative design, specifically developed for cleaning domestic areas quickly and efficiently. May be used for daily cleaning operations on wooden floors using specific detergent, as well as for extra maintenance work to remove old wax and apply new wax.

10.3 Accessories, abrasive disks and products for the maintenance of parquet

**Pulicol 2000**
Solvent gel for removing adhesive and paint.

**Cleaner L**
Cleaning solution for pre-finished parquet.

**Cleaner H**
Damp wipes for cleaning hands.

** TECHNICAL DATA:**
- **Packaging:** plastic bottles with 80 damp wipes (20x30 cm).

** Pulicol 2000**
- **Consistency:** gel.
- **Colour:** transparent.
- **Flammable:** yes.
- **Application temperature range:** from +10°C to +35°C.
- **Removal time:**
  - adhesives in water dispersion or in solution: 5 minutes;
  - reactive adhesives: 60 minutes.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 0.3 kg/m².
- **Packaging:** 2.5 kg drums.

**Cleaner L**
- **Consistency:** liquid.
- **Colour:** transparent.
- **Flammable:** yes.
- **Application temperature range:** from +5°C to +35°C.
- **Drying time:** 24 hours.
- **Storage:** 12 months.
- **Application:** cotton rag.
- **Consumption:** 5-20 g/m².
- **Packaging:** 1 litre bottles (0.85 kg) in boxes of 12 bottles.

**Cleaner H**
- **Packaging:** plastic bottles with 80 damp wipes (20x30 cm).
**Ultrabond P-R9**

One-component, moisture curing, expansive polyurethane adhesive used by injection, for fastening and repairing parquet elements which are not perfectly bonded to the substrate.

**Technical Data:**
- **Consistency:** liquid.
- **Colour:** brown.
- **Inflammable:** no.
- **Application temperature range:** from +10°C to +35°C.
- **Sanding:** 24 hours.
- **Set to light foot traffic:** 24 hours.
- **Storage:** 6 months.
- **Application:** by extrusion from the nozzle on the canister.
- **Consumption:** 1-2 ml for each hole to be injected.
- **Packaging:** 0.5 kg canisters.

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**Ultracoat Cleaner**

Hygienising detergent for wooden floors. Used neat it removes the most stubborn dirt. When diluted with water, it is the ideal detergent for daily cleaning operations in rooms where maximum hygiene is required. Gets rid of dirt from parquet without removing the finishing treatments. Leaves floors clean and hygienised with a pleasant fragrance.

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**Ultracoat Oil Pad**

Special fabric pad for applying ULTRACOAT HARD OIL FAST, ULTRACOAT OIL PLUS and ULTRACOAT OIL COLOR. Specific for removing the products.

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**Ultracoat Pad**

Pads used for polishing and cleaning parquet floors.

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**Technical Data:**
- **Packaging:** boxes of 6 pads.
**Ultracoat Remover Plus**
Detergent to remove old wax and stubborn dirt; brings out the natural veining of wood. Reacts with old wax by breaking it down to make removal easier.

**Ultracoat Polish H-T**
Protective wear and stain-resistant polish for wooden floors. Ready-to-use product for all types of varnished wooden floor. Provides effective protection against the penetration of stains and reduces absorption of oil, grease, coffee, wine and paint. Also protects against wear from footsteps and abrasion and prevents surface scratches. Brightens up varnished floors to restore them to their original condition and makes the surface of floors less slippery.

**Ultracoat Polish A-S**
Natural anti-slip protection for wooden floors. Ready-to-use natural wax made from Carnauba extract and water developed specifically for the maintenance of wooden floors using natural products. Also makes surfaces non-slip.

**Ultracoat Pad Special Stripper**
Pads used for polishing and sanding of Ultracoat base coats and paints.

**TECHNICAL DATA:**
Packaging: boxes of 10 pads.
**Ultracoat Roller Base Sport**
Roller for premium base application of the first coat of ULTRACOAT HT SPORT on playing surfaces.

**Ultracoat Roller Finish Sport**
Roller for applying ULTRACOAT HT SPORT and ULTRACOAT SPORT COLOR.

**Ultracoat Roller MT8**
Handle for ULTRACOAT ROLLER T3, ULTRACOAT ROLLER T5 and ULTRACOAT ROLLER T10 rollers.

**Ultracoat Roller MT Sport**
Handle for ULTRACOAT ROLLER BASE SPORT and ULTRACOAT ROLLER FINISH SPORT
Ultracoat Roller T3
Roller for applying ULTRACOAT HARD
OIL FAST, ULTRACOAT OIL PLUS,
ULTRACOAT OIL WAX and ULTRACOAT
OIL COLOR.

Ultracoat Roller T5
5 mm fabric roller for applying the
second coat of all ULTRACOAT finishing
cycles on low porosity wood; after
checking its suitability it may also be
used for applying the first coat directly
on wood.

Ultracoate Roller T3
Roller for applying ULTRACOAT HARD
OIL FAST, ULTRACOAT OIL PLUS,
ULTRACOAT OIL WAX and ULTRACOAT
OIL COLOR.

Ultracoat SR
Abrasive mesh disks in silica carbide
for sanding parquet floors.
**Ultracoat Steel Spatula**

Special spatula recommended for spreading ULTRACOAT AQUA PLUS and ULTRACOAT OIL WAX. Made entirely from stainless steel, when used to apply ULTRACOAT AQUA PLUS it avoids staining the pavement due to discolouring of the high quantity of tannin in certain types of wood. Adjustable flexibility to make grouting operations easier and to guarantee correct filling of even larger joints. Its special shape with rounded corners helps to avoid the formation of streaks of material on the surface of the floor, which makes it particularly recommended for spreading on ULTRACOAT OIL WAX and ULTRACOAT PREMIUM BASE.
PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

11.1 Resin based products

**Mapecoat DW 25**
Two-component epoxy paint for anti-acid and non-toxic coatings on concrete surfaces, suitable for contact with drinking water.

**TECHNICAL DATA:**
- Consistency: component A thick paste, component B fluid paste.
- Colour: component A white, component B transparent.
- Density (EN ISO 2811-1) (g/cm³): component A 1.43, component B 1.003.
- Dilution rate: supplied ready to use.
- Waiting time between each coat: 6-24 hours.
- Complete hardening time: 7 days.
- Application temperature range: from +5°C to +30°C.
- Cleaning: ethanol.
- Storage: 24 months.
- Application: roller, brush or spray.
- Consumption: 0.4-0.6 kg/m² per coat.
- Packaging: 5 kg kits (A + B).

**Mapecoat I 24**
Two-component epoxy paint for anti-acid coatings on concrete surfaces.

**TECHNICAL DATA:**
- Colour of mix: white, grey (RAL 7001) and neutral and in RAL colours.
- Application temperature range: from +5°C to +30°C.
- Workability time: 30-40 minutes.
- Setting time of film: 4-5 hours.
- Waiting time between first and second coat: 6-24 hours.
- Final hardening time: 3 days.
- Storage: 24 months in its original sealed packaging.
- Application: brush, roller or airless spray.
- Consumption: 400-600 g/m² per coat.
- Packaging: – 5 kg kits (A+B); – 15 kg kits (A+B).

**Mapecoat I 62 W**
Two-component epoxy coating in water dispersion with a gloss finish to form smooth films of resin coating. Specifically developed for coating the surface of walls and ceilings in clean rooms.

**TECHNICAL DATA:**
- Consistency of mix: thick liquid.
- Colour: RAL colours. Please contact head office for the complete range.
- Application: two coats of the product with a short-pile roller or by airless spray.
- Consumption: coating film, approx. 0.20-0.25 kg/m² per coat.
- Storage: 24 months in its original packaging in a dry place at a temperature of at least +10°C.
- Packaging: 11 kg kits (A+B); (comp. A = 2.5 kg; comp. B = 8.5 kg)

**Mapecoat I 600 W**
Two-component transparent epoxy primer in water dispersion.

**TECHNICAL DATA:**
- Consistency of mix: fluid.
- Colour of mix: opaline.
- Workability time: 2-3 hours.
- Dust dry at +23°C and 50% R.H.: 3-4 hours (first coat), 6-8 hours (second coat).
- Final hardening time: 7 days.
- Application temperature range: from +8°C to +35°C.
- Storage: 24 months in its original sealed packaging.
- Application: roller, spray or airless spray.
- Consumption: 0.150-0.250 kg/m², depending on the absorbency of the substrate.
- Packaging: 5.9 and 11.8 kg kits (A + B).
### Mapecoat I 600 W Lucido
Two-component, shiny, transparent epoxy primer in water dispersion.

**TECHNICAL DATA:**  
- **Consistency of mix:** fluid.  
- **Colour of mix:** opaline.  
- **Workability time:** 2-3 h.  
- **Dust dry at +23°C - 50% R.H.:**  
  - – 3-4 h (first coat);  
  - – 6-8 h (second coat).  
- **Final hardening time:** 7 days.  
- **Application temperature range:** from +8°C to +35°C.  
- **Storage:** 24 months in its original sealed packaging.  
- **Application:** roller, spray or airless spray.  
- **Consumption:** 300-500 g/m², depending on the absorbency rate of diluted product.  
- **Packaging:** 5.9 kg kits (A + B).  

### Mapecoat I 620 W
Two-component, shiny epoxy finish in water dispersion for anti-dust and anti-grease treatments on concrete floors, cementitious substrates and as a finishing coat on epoxy systems.

**TECHNICAL DATA:**  
- **Colour of mix:** opaline.  
- **Consistency of mix:** fluid.  
- **Application temperature range:** from +12°C to +30°C.  
- **Workability time:** 40 minutes.  
- **Dusty dry:** 3 hours.  
- **Touch dry:** 4-5 h.  
- **Setting time:** 8-9 hours.  
- **Waiting time between first and second coat:** 6-24 h according to temperature and level of humidity.  
- **Complete hardening time:** 7 days.  
- **Storage:** 12 months in its original sealed packaging.  
- **Application:** short-haired or medium-haired roller or airless spray system.  
- **Consumption:** 0.100-0.250 kg/m² per coat according to the absorption of the substrate.  
- **Packaging:** 15 kg kits (A + B).  

### Mapecoat I 650 WT
Two-component, water-dispersed, matt epoxy finish for treating the surface of cementitious substrates.

**TECHNICAL DATA:**  
- **Consistency of mix:** fluid.  
- **Workability time:** 40 min.  
- **Dust dry:** 3-4 h.  
- **Touch dry:** 4-5 h.  
- **Waiting time between first and second coat:** 6-24 h according to temperature and level of humidity.  
- **Complete hardening time:** 7 days.  
- **Storage:** 12 months in its original packaging in a dry area away from sources of heat at a temperature of between +5°C and +30°C.  
- **Consumption:** approximately 0.25 kg/m² per coat.  
- **Concentration depends on the characteristics of the substrate on which the product is applied and the application method used, and may increase if the surface on which it is applied is uneven.**  
- **Packaging:** 15 kg kits (A + B).  

### Mapecoat Universal
Two-component, transparent epoxy binder for internal decorative coatings from the MAPEFLOOR COMPACT SYSTEM range.

**TECHNICAL DATA:**  
- **Colour of mix:** transparent straw yellow.  
- **Consistency of mix:** thick fluid.  
- **Density of mix (kg/m³):** ca. 1,079.  
- **Pot life of mix at +23°C and 50% R.H.:** approx. 30 minutes.  
- **Application temperature:** min. +10°C - max. +30°C.  
- **Hardening time at +23°C and 50% R.H.:** set to foot traffic: 12 h; complete hardening time: 7 days.  
- **Shore D hardness after (7 days at +23°C) (ISO 868:2003):** approx. 75.  
- **Flexural strength after (7 days at +23°C) (EN 196-1):** ≥ 30.  
- **Compressive strength after (7 days at +23°C) (EN 196-1):** ≥ 55.  
- **Storage:** 24 months in its original sealed packaging, in a dry place, stored at a temperature between +5°C and +30°C.  
- **Application:** for priming: roller or smooth steel trowel; for MAPEFLOOR COMPACT SYSTEM MF: smooth trowel or smooth rake; for MAPEFLOOR COMPACT SYSTEM HD: screed-box or straight edge with shims.  
- **Consumption:** for priming: 0.200-0.400 kg/m²; for MAPEFLOOR COMPACT SYSTEM - 3 mm thickness: 1.4-1.6 kg/m²; for MAPEFLOOR COMPACT SYSTEM HD - 7 mm thickness: 2.0-2.5 kg/m².  
- **Packaging:** 15 kg kit (A + B).
**Mapecrete L1 Hardener**
Surface treatment in liquid form made from lithium silicate with a consolidating effect, for new or old concrete floors and concrete surfaces broadcast with quartz sand.

**Mapecrete Creme Protection**
Solvent-free, silane-based, thixotropic water repellent in water dispersion, ideal for hydrophobic treatments on concrete.

**Mapecolor CPU**
Powder pigment for colouring MAPEFLOOR CPU/MF, MAPEFLOOR CPU/HD, MAPEFLOOR CPU/RT and MAPEFLOOR CPU/NZ.

**Mapecolor Paste**
System for colouring MAPEFLOOR I 300 SL, MAPEFLOOR I 500 W, MAPEFLOOR PU 410, PRIMER SN, MAPEFLOOR DECOR 700, MAPEFLOOR I 360 AS and MAPEFLOOR I 390 EDF.

**IN COMPLIANCE WITH EUROPEAN STANDARD SURFACE PROTECTION SYSTEMS FOR CONCRETE EN 1504-2 (C)**

**Mapecolor Creme Protection**
Solvent-free, silane-based, thixotropic water repellent in water dispersion, ideal for hydrophobic treatments on concrete.

**Mapecolor Paste**
System for colouring MAPEFLOOR I 300 SL, MAPEFLOOR I 500 W, MAPEFLOOR PU 410, PRIMER SN, MAPEFLOOR DECOR 700, MAPEFLOOR I 360 AS and MAPEFLOOR I 390 EDF.

**N.B.:** other RAL colours available upon request (minimum quantity 25 kg).

**Mapecrete L1 Hardener**
Surface treatment in liquid form made from lithium silicate with a consolidating effect, for new or old concrete floors and concrete surfaces broadcast with quartz sand.

**TECHNICAL DATA:**
- Colour: grey, beige, ochre yellow, red and green.
- Bulk density: 1.4 ± 0.05 g/cm³.
- Storage: 24 months in its original sealed packaging.
- Application: mix with polyurethane/cement-based formulations.
- Consumption: mix one 5 kg pack per kit of MAPEFLOOR CPU/MF, MAPEFLOOR CPU/HD, MAPEFLOOR CPU/RT or MAPEFLOOR CPU/NZ.
- Packaging: kits of 4x5 kg Alupack bags.

**TECHNICAL DATA:**
- Colour: yellowish white.
- Appearance: creamy.
- Density (g/cm³): 0.9.
- Dry substances content (%): 80.
- Flash point (ISO 3679): +64°C.
- Storage: 24 months in its original sealed packaging.
- Application: squeegee, (airless) spray system, brush or roller.
- Consumption: 0.1-0.4 kg/m² according to the level of absorption of the concrete.
- Packaging: 25 kg drums.

**Mapecrete Creme Protection**
Solvent-free, silane-based, thixotropic water repellent in water dispersion, ideal for hydrophobic treatments on concrete.

**Mapecolor Paste**
System for colouring MAPEFLOOR I 300 SL, MAPEFLOOR I 500 W, MAPEFLOOR PU 410, PRIMER SN, MAPEFLOOR DECOR 700, MAPEFLOOR I 360 AS and MAPEFLOOR I 390 EDF.

**N.B.:** other RAL colours available upon request (minimum quantity 25 kg).

**Mapecrete L1 Hardener**
Surface treatment in liquid form made from lithium silicate with a consolidating effect, for new or old concrete floors and concrete surfaces broadcast with quartz sand.

**Mapecolor Creme Protection**
Solvent-free, silane-based, thixotropic water repellent in water dispersion, ideal for hydrophobic treatments on concrete.

**Mapecolor Paste**
System for colouring MAPEFLOOR I 300 SL, MAPEFLOOR I 500 W, MAPEFLOOR PU 410, PRIMER SN, MAPEFLOOR DECOR 700, MAPEFLOOR I 360 AS and MAPEFLOOR I 390 EDF.

**N.B.:** other RAL colours available upon request (minimum quantity 25 kg).

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**Mapeccrete Stain Protection**
Hydro-oil repellent and anti-stain treatment for concrete, natural stone and cementitious surfaces made from modified organic polymers in water solution.

**TECHNICAL DATA:**
- Application temperature range: from +10°C to +30°C.
- Absorption by immersion in oil (%): 0.35.
- Capillary absorption EN 13057 (kg/m² ∙ h½): 0.25.
- Storage: 12 months in its original sealed packaging.
- Application: by spray, airless spray or brush.
- Consumption: 0.1-0.3 kg/m² according to the level of porosity of the concrete.
- Packaging: 25 kg tanks.

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**Mapefloor Binder 930**
One-component, aliphatic polyurethane binder for decorative open-pore floors made with natural open-pore aggregates.

**TECHNICAL DATA:**
- Colour of mix: transparent.
- Consistency of mix: fluid.
- Workability time: 70 minutes.
- Complete set to light foot traffic time: 48 hours.
- Application temperature range: from +8°C to +30°C.
- Compressive strength after 28 days (EN 196-1): ≥ 40 N/mm².
- Shore D hardness after 28 days: 75-80.
- Storage: 12 months in its original sealed packaging.
- Application: rake, straight-edge, smooth trowel and mechanical vibro-compactor.
- Consumption: 1 kg/m² per cm of thickness.
- Packaging: 5 kg drums.

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**Mapefloor CPU/COVE**
Three-component polyurethane/cement-based mortar for making covings and details.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 1.6/1.4/18 plus 0.25 parts by weight of MAPECOLOR PASTE.
- Colour of mix: depending on the colour of MAPECOLOR PASTE used.
- Pot life of mix at +20°C: 20 minutes.
- Full hardening time: 5 days.
- Compressive strength after 28 days (EN 196-1): ≥ 40 N/mm².
- Shore D hardness after 28 days: 75-80.
- Storage: 12 months in its original sealed packaging.
- Application: according to the size and shape of the edge or corner to be blended: approx. 2 kg/f.
- Packaging: 21 kg kits (A+B+C).

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**Mapefloor CPU/HD**
Three-component, high-strength polyurethane-cement mortar with high resistance to chemicals for industrial floors, applied in thicknesses 6 to 9 mm.
Complies with standards applied in the foodstuffs sector.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 2.6/2.7/20.5 plus 5 kg of MAPECOLOR CPU.
- Colour of mix: grey, beige, ochre, red and green.
- Consistency of mix: thick.
- Pot life of mix at +20°C: 15 minutes.
- Dust dry at +23°C and 50% R.H.: ≥ 2-4 hours.
- Set to light foot traffic at +23°C and 50% R.H.: ≥ 8 hours.
- Final hardening time: 4 days.
- Slip resistance (pendulum test method EN 13036-4):
  - dry: 85 (class II).
  - wet: 60 (class I).
- Storage: 12 months in its original sealed packaging.
- Application: American smooth trowel.
- Consumption: 2 kg/m² per mm of thickness.
- Packaging: 25.8 kg kits (A+B+C).
**Mapefloor CPU/MF**
Three-component, self-levelling polyurethane-cement mortar with high resistance to chemicals for industrial floors, applied in thicknesses 3 to 6 mm. Complies with standards applied in the foodstuffs sector.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 1.6/1.4/1.7 plus 0.47% by weight of MAPECOLOR PASTE.
- Colour of mix: grey, beige, ochre, red and green.
- Consistency of mix: self-levelling fluid.
- Pot life of mix at +20°C: 15 minutes.
- Dust dry at +23°C and 50% R.H.: 2-4 hours.
- Set to light foot traffic at +23°C and 50% R.H.: 8 hours.
- Complete hardening time: 4 days.
- Flexural strength after 28 days (EN 13892-2): 13.80 N/mm².
- Compressive strength after 28 days (EN 13892-2): 61.70 N/mm².
- Storage: 12 months in its original sealed packaging.
- Application: smooth trowel or rake with spacers.
- Consumption: 1.7 kg/m² per mm of thickness.
- Packaging: 30.6 kg kits (A+B+C).

**Mapefloor CPU/NZ**
Three-component easy-to-apply high-strength polyurethane/cement-based mortar with high resistance to chemicals for coating industrial floors in layers from 4 to 6 mm thick.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 2.6/2.7/16 plus 5 kg of MAPECOLOR CPU.
- Colour of mix: grey, beige, red, green, ochre yellow.
- Consistency of mix: thick.
- Pot life of mix at +20°C: 15 min.
- Dust dry at +23°C and 50% R.H.: 2 h - 4 h.
- Set to foot traffic at +23°C and 50% R.H.: 6 hours.
- Complete hardening time: 4 days.
- Flexural strength after 28 days (EN 13892-2): 13.80 N/mm².
- Compressive strength after 28 days (EN 13892-2): 61.70 N/mm².
- Storage: 12 months in its original sealed packaging.
- Consumtion: 1.9 kg/m² per mm of thickness.
- Packaging: 21.3 kg kit (A+B+C).

**Mapefloor CPU/RT**
Three-component, high-strength, easy-to-apply, polyurethane-cement mortar with high resistance to chemicals for coating industrial floors in layers from 6 to 9 mm thick. Complies with standards applied in the foodstuffs sector.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 2.6/2.7/18 plus 5 kg of MAPECOLOR CPU.
- Colour of mix: grey, beige, red, green, ochre yellow.
- Consistency of mix: viscous-fluid.
- Pot life of mix at +20°C: 15 mins.
- Dust dry at +23°C and 50% R.H.: 2-4 hours.
- Set to light foot traffic at +23°C and 50% R.H.: 8 hours.
- Complete hardening time: 4 days.
- Flexural strength after 28 days (EN 13892-2): 13.80 N/mm².
- Compressive strength after 28 days (EN 13892-2): 61.70 N/mm².
- Storage: 12 months in a dry area in its original, closed packaging.
- Consumption: 1.9 kg/m² per mm of thickness.
- Packaging: 23.3 kg kit (A+B+C).

**Mapefloor CPU/TC**
Three-component polyurethane/cement-based formulate for coating walls and as a finishing coat on polyurethane/cementitious systems for industrial floors.

**TECHNICAL DATA:**
- Mixing ratio: A/B/C = 1.6/1.4/1.7 plus 0.47% by weight of MAPECOLOR PASTE.
- Colour of mix: grey, beige, ochre yellow, red and green.
- Consistency of mix: fluid.
- Pot life of mix at +20°C: 15 mins.
- Dust dry at +23°C and 50% R.H.: 2-4 hours.
- Set to foot traffic at +23°C and 50% R.H.: 24 hours.
- Full hardening time: 5 days.
- Storage: 12 months in its original sealed packaging.
- Application: steel or rubber trowel or short or medium-haired roller.
- Consumption:
  - Thickness of coat 0.2-0.25 mm: 0.3-0.35 kg/m².
  - Finishing coat on MAPEFLOOR CPU/MF with a dry-shake finish of quartz sand: 0.3-0.6 kg/m².
- Packaging: 4.7 kg kits (A+B+C).
**Mapefloor Decor 700**
Two-component, solvent-free epoxy paste in water dispersion to create floors with a trowel-effect or mottled finish. May be coloured with MAPECOLOR PASTE.

**TECHNICAL DATA:**
Colour of mix: cream.
Consistency of mix: paste.
Dust dry at +23°C and 50% R.H.: 2 hours.
Set to light foot traffic at +23°C and 50% R.H.: 12 hours.
Final hardening time: 7 days.
Compressive strength after 7 days (EN 196-1): 50 N/mm².
Taber abrasion resistance after 7 days (CS17 disk - 1000 g - 1000 revs): 50 mg.
Storage: 12 months in its original sealed packaging.
Application: smooth trowel.
Consumption: from 1 to 1.5 kg/m² per coat according to the characteristics of the substrate and type of decorative finish required.
Packaging: 10 kg kits (A+B).

**Mapefloor EP19**
Three-component acid and wear-resistant epoxy mortar for floors.

**TECHNICAL DATA:**
Mixing ratio: A/B/C = 7.5/2.5/90.
Consistency of mix: damp sand.
Application temperature range: from +5°C to +30°C.
Workability time: from 30 to 40 minutes.
Set to light foot traffic: 6 hours.
Ready for use: 12 hours.
Resistance to temperatures: from -20°C to +120°C.
Resistance to oils: excellent.
Resistance to acids and alkalis: excellent.
Compressive strength after 7 days (EN 196/1): 50 N/mm².
Flexural strength after 7 days (EN 196-1): 20 N/mm².
Taber abrasion resistance after 7 days (H22 disk - 1000 g - 1000 revs): 1.1 g.
Storage: 24 months in its original sealed packaging.
Application: trowel and smooth metal trowel.
Consumption: 20 kg/m² per cm of thickness.
Packaging: 10 kg kits (A+B+C).

**Mapefloor Finish 50 N**
Two-component, aliphatic, transparent polyurethane finish for absorbent surfaces.

**TECHNICAL DATA:**
Colour of mix: transparent.
Consistency of mix: fluid.
Dry substances content (%): 65.
Density of mix (kg/m³): 1,040.
Viscosity of mix (mPa·s): 345.
Buchholz hardness (after 7 days at +23°C) (DIN 53153): 111.
Dust dry (at 23°C and 50% R.H.): approx. 6 h.
Set to light foot traffic (at +23°C and 50% R.H.): 24 h.
Complete hardening time: 7 days.
Taber Test (after 7 days at +23°C and 50% R.H.) 1,000 cycles/1,000 revs, CS 17 disk (DIN 53109) (mg): 60.
Storage: 12 months in its original sealed packaging at +5°C to +30°C.
Consumption: 0.05-0.3 kg/m² per cm of thickness.
Packaging: 10 kg kits (A+B+C).

**Mapefloor Finish 52 W**
Two-component, polyurethane finishing product in water dispersion with low yellowing properties, for anti-dust and anti-oil treatments.

**TECHNICAL DATA:**
Colour of mix: opaline.
Consistency of mix: fluid.
Workability time: 30 minutes.
Dust dry (at +23°C and 50% R.H.): 20-35 minutes.
Set to light foot traffic (at +23°C and 50% R.H.): 12 hours.
Final hardening time: 7 days.
Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g): 50 mg.
Buchholz hardness (after 7 days): 71.
Storage: 12 months in its original sealed packaging.
Application: short-haired roller such as mohair, by spray or airless spray system.
Consumption: 50-150 g/m² per coat according to the absorption of the substrate.
Packaging: 5.4 kg kits (A+B).
**Mapefloor Finish 53 W/L**
Two-component, aliphatic, transparent, matt polyurethane finish in water dispersion with no NMP for protecting resin and cementitious systems.

**TECHNICAL DATA:**
- Colour of mix: transparent.
- Consistency of mix: fluid.
- Workability time: 15-20 minutes at +23°C.
- Varnishing: from 3 to 5 hours.
- Sanding: after 12 hours.
- Set to the touch: 40 minutes.
- Dust dry at +23°C and 50% R.H.: 40 minutes.
- Set to light foot traffic at +23°C and 50% R.H.: 6-7 hours.
- Final hardening time: 12 hours at +23°C.
- Gloss: 80.
- Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g): 22 mg.
- Storage: 12 months in its original sealed packaging.
- Application: short-haired roller such as mohair or airless spray system.
- Consumption: 0.1-0.2 kg/m² according to the grade of finish required for the coating material.
- Packaging: 2 kits (A+B) of 5 + 0.5 l units.

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**Mapefloor Finish 55**
Two-component, aliphatic, highly-flexible polyurethane finish resistant to wear and UV rays.

**TECHNICAL DATA:**
- Colour of mix: transparent.
- Consistency of mix: fluid.
- Workability time: 15-20 minutes at +23°C.
- Varnishing: from 3 to 5 hours.
- Sanding: after 12 hours.
- Set to the touch: 40 minutes.
- Dust dry at +23°C and 50% R.H.: 40 minutes.
- Set to light foot traffic at +23°C and 50% R.H.: 6-7 hours.
- Final hardening time: 12 hours at +23°C.
- Gloss: 80.
- Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g): 22 mg.
- Storage: 12 months in its original sealed packaging.
- Application: short-haired roller such as mohair or airless spray system.
- Consumption: 0.1-0.2 kg/m² according to the grade of finish required for the coating material.
- Packaging: 2 kits (A+B) of 5 + 0.5 l units.

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**Mapefloor Finish 54 W/S**
Two-component, aliphatic, transparent, matt polyurethane finish in water dispersion with no NMP for protecting resin and cementitious systems.

**TECHNICAL DATA:**
- Colour of mix: transparent.
- Consistency of mix: fluid paste.
- Workability time: 15-20 minutes at +23°C.
- Varnishing: from 3 to 5 hours.
- Sanding: after 12 hours.
- Set to the touch: 40 minutes.
- Dust dry at +23°C and 50% R.H.: 40 minutes.
- Set to light foot traffic at +23°C and 50% R.H.: 6-7 hours.
- Final hardening time: 12 hours at +23°C.
- Gloss: 50.
- Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g): 86 mg.
- Storage: 12 months in its original sealed packaging.
- Application: short-haired roller such as mohair or airless spray system.
- Consumption: 0.15-0.35 kg/m².
- Packaging: 9.1 kg kits (A+B).

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**Mapefloor Finish 58 W**
Two-component, aliphatic, transparent or coloured, matt polyurethane finish in water dispersion.

**TECHNICAL DATA:**
- Colour of mix: transparent or coloured.
- Consistency of mix: fluid.
- Density of mix (kg/m³): 1,065-1,095.
- Abrasion resistance Taber abrasion-meter (CS17 disk, 1000 g) 1000 cycles (mg): 30 (after 7 days).
- Gloss (Gloss 60°): 10.
- Storage: 12 months in its original packaging at +12°C to +30°C.
- Consumption: 0.1-0.2 kg/m² according to the grade of finish required for the coating.
- Packaging: 5.5 kg transparent or 6 kg coloured kits (A+B).
### Mapefloor Finish 415
Two-component, aromatic, flexible, wear- and UV-resistant elastic coloured polyurethane finish.

**TECHNICAL DATA:**
- Colour of mix: transparent, milky.
- Consistency of mix: fluid paste.
- Density of mix (kg/m³): 1,480.
- Viscosity of mix (mPa·s): 1,500 ± 200 (rotor 4 - 50 revs).
- Pot life at +23°C: 40 mins.
- Dust dry at 23°C, 150 microns on glass: 90 mins.
- Set to foot traffic at +23°C: 24 h.
- Final hardening time at +23°C: 3 days.
- Maximum deformation after 7 days at +23°C + 14 days at +50°C: 43%.
- Tear strength after 7 days at +23°C + 14 days at +50°C (N/mm): 97.
- Tensile strength after 7 days at +23°C + 14 days at +50°C (N/mm²): 12.2.
- Taber abrasion resistance (CS17 disk - 1,000 g - 1,000 revs) after 7 days at +23°C (mg): 95.
- Shore A hardness: 85.
- Storage: 12 months in its original sealed packaging. Protect from frost.

**Theoretical consumption:** 0.6-0.8 kg/m².

**Packaging:** 20 kg kits (A + B).

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### Mapefloor Finish 451
Two-component, aliphatic, flexible, wear- and UV resistant, elastic, coloured, polyaspartic finish.

**TECHNICAL DATA:**
- Colour of mix: coloured. Please contact Head Office.
- Consistency of mix: liquid/paste.
- Density of mix (kg/m³): 1.35.
- Viscosity of mix: 2,000-2,500 (mPa·s).
- Pot life at (EN ISO 9514): 10 mins. (+ 15%) to reach +40°C.
- Set to light foot traffic at +23°C: 24 hours.
- Final hardening time: at +23°C: 3 days.
- Elongation at failure after 7 days at +23°C (DIN 53504): 70%.
- Tear strength after 7 days at +23°C (DIN 53515): 90 N/mm².
- Tensile strength after 7 days at +23°C (DIN 53504): 15 N/mm².
- Taber abrasion resistance (CS17 disk - 1,000 g - 1,000 revs) after 7 days at +23°C: 90 mg.
- Storage: 12 months in a covered, dry place at a temperature between +15°C and +25°C.
- Theoretical consumption: 0.5-0.8 kg/m².

**Packaging:** 12.5 kg kits (A+B).

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### Mapefloor Finish 630
Two-component, protective acrylic films agent in water dispersion for concrete, ULTRATOP and ULTRATOP LIVING floors.

**TECHNICAL DATA:**
- Colour of mix: coloured. Please contact Head Office.
- Consistency of mix: liquid/paste.
- Density of mix (kg/m³): 1.12.
- Viscosity of mix: 2,000-2,500 (mPa·s).
- Pot life at (EN ISO 9514): 10 mins. (+ 15%) to reach +40°C.
- Set to light foot traffic at +23°C: 24 hours.
- Final hardening time: at +23°C: 3 days.
- Elongation at failure after 7 days at +23°C (DIN 53504): 70%.
- Tear strength after 7 days at +23°C (DIN 53515): 90 N/mm².
- Tensile strength after 7 days at +23°C (DIN 53504): 15 N/mm².
- Taber abrasion resistance (CS17 disk - 1,000 g - 1,000 revs) after 7 days at +23°C: 90 mg.
- Storage: 12 months in its original sealed packaging. Protect from frost.

**Theoretical consumption:** 0.5-0.8 kg/m².

**Packaging:** 12.5 kg kits (A+B).

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### Mapefloor I 300 SL
Two-component, multi-purpose, neutral-coloured epoxy formulate for industrial floor coatings up to 4 mm thick.

**TECHNICAL DATA:**
- Colour of mix: neutral.
- Consistency of mix: fluid.
- Dust dry at +23°C and 50% R.H.: 2-4 hours.
- Set to light foot traffic at +23°C and 50% R.H.: 24 hours.
- Final hardening time: 7 days.
- Taber Test after 7 days (EN ISO 5470-1) CS17 disk, 1000 cycles, 1000 g at +23°C - 50% R.H.: 70 mg.
- Storage: 24 months in its original sealed packaging.
- Application: by roller or flat or notched trowel.
- Consumption: - 2.0 kg/m² for 2 mm thick self-levelling coatings on substrates primed with PRIMER SN;
- 0.9 kg/m² for intermediate layers in 3 mm thick non-slip coatings on substrates primed with PRIMER SN;
- 0.6 kg/m² for finishing layers in 1 mm and 3 mm thick non-slip coatings on substrates primed with PRIMER SN.

**Packaging:** 20 kg kits (A+B).
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

**Mapefloor I 300 SL TRP**
Two-component, transparent, non-yellowing epoxy coatings applied at a thickness of 1 mm for finishing coats on epoxy resin systems.

**TECHNICAL DATA:**
- **Mixing ratio:** comp. A : comp. B = 100 : 50.
- **Colour of mix:** transparent.
- **Consistency of mix:** fluid.
- **Pot life of mix:** approx. 30 minutes.
- **Dust dry at +23°C and 50% R.H.:** 6 hours.
- **Set to light foot traffic at +23°C and 50% R.H.:** 24 hours.
- **Final hardening time:** 7 days.
- **Compressive strength (ASTM D 695):** 55 N/mm².
- **Flexural strength (ISO 178):** 25 N/mm².
- **Surface hardness (shore D):** 75.
- **Taber Test CS17 disk, 1000 cycles, 1000 g (DIN 52108):** 80 mg.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** No. 7 notched trowel.
- **Consumption:** approx. 1-1.5 kg/m² to form a 1 mm thick coat.
- **Packaging:** 18 kg kits (A+B).

**Mapefloor I 306 CR**
Two-component, low emission epoxy formulate for coating self-levelling floors in clean rooms.

Available only upon request.

**TECHNICAL DATA:**
- **Consistency of mix:** thick liquid.
- **Colour:** RAL colours. Please contact head office for the complete range.
- **Application:** smooth notched trowel (with “V” shaped notches).
- **Consumption:** smooth self-levelling coating - average thickness 2 mm 2.3 kg/m².
- **Concentration of airborne particles (ISO 14644-1):** ISO Class 2.
- **VOC emissions (ISO 14644-8):** ISO-ACCm Class < 9.6.
- **Storage:** 24 months in its original packaging in a dry place at a temperature of +5°C and +35°C.
- **Packaging:** 20 kg kits (A+B); (comp. A = 16 kg; comp. B = 4 kg).

**Mapefloor I 309 CR**
Two-component, low emission epoxy formulate for coating self-levelling floors in clean rooms.

Available only upon request.

**TECHNICAL DATA:**
- **Consistency of mix:** thick liquid.
- **Colour:** RAL colours. Please contact head office for the complete range.
- **Application:** smooth notched trowel (with “V” shaped notches).
- **Consumption:** smooth self-levelling coating - average thickness 2 mm 2.3 kg/m².
- **Concentration of airborne particles (ISO 14644-1):** ISO Class 2.
- **VOC emissions (ISO 14644-8):** ISO-ACCm Class < 9.6.
- **Storage:** 24 months in its original packaging in a dry place at a temperature of +5°C and +35°C.
- **Packaging:** 19.5 kg kits (A+B); (comp. A = 16 kg; comp. B = 3.5 kg).

**Mapefloor I 320 SL CONCEPT**
Self-levelling epoxy coating with a coloured granular finish for abrasion-resistant floors.

**TECHNICAL DATA:**
- **Mixing ratio:** comp. A : comp. B = 100 : 22.
- **Colour of mix:** light grey, dark grey, light blue, dark blue and red.
- **Consistency of mix:** fluid.
- **Compressive strength after 7 days at +23°C (DIN EN 196-1):** 52 N/mm².
- **Flexural strength after 7 days at +23°C (DIN EN 196-1):** 31 N/mm².
- **Surface hardness (shore D):** 75.
- **Taber Test (after 7 days, CS17 disk, 1000 cycles, 1000 g):** 80 mg.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** smooth trowel.
- **Consumption:** 3 kg/m².
- **Packaging:** 16.8 kg kits (A+B).
MAPECOLOR PASTE. May be coloured with neutral-coloured epoxy formulate in Two-component, vapour-permeable, Mapefloor I 500 W coatings.

formulate for high strength, dissipative Mapefloor I 390 EDF conductive coatings.

formulate for high strength, electrically guiding rails.


EN 13813

AR0.5-IR20-BFL-s1

SYNTHETIC

B2.0

RESINS

SR

B2.5

TECHNICAL DATA:


Colour of mix: neutral.

Consistency of mix: thick fluid.

Dust dry at +23°C and 50% R.H.: 2-2.5 kg/m².

Pot life of mix at +20°C: 20 minutes.

Fluid.

Colour of mix: neutral.


Colour of mix: neutral.

Consistency of mix: fluid.

Density of mix (kg/m³): 1,420.

Viscosity of mix (Pa·s): 1.5-2.5 (# 3 - 20 rpm).

Workability time: approx. 40 min. at +10°C; approx 25 min. at +20°C; approx 15 min. at +30°C.

Set to foot traffic: approx. 30 h at +10°C; approx 24 h at +20°C; approx 16 h at +30°C.

Electrical resistance (EN 1081) (Ohm): 104<RE<106.

16 h at +30°C.

Taber Test after 7 days (EN ISO 5470-1) CS17 disk, 1,000 revs - 1,000 g) after 7 days at +23°C (DIN 53109) (mg): 70 mg.

Shore D hardness after 3 days at +23°C (DIN 53505): 77.

Adhesion to concrete (ISO 4624) (N/mm²): ≥ 1.5 (failure of concrete).

Shore D hardness after 3 days at +23°C (DIN 53505): 77.

Adhesion to concrete (ISO 4624) (N/mm²): 70.

 Abrasion resistance - Taber abrasion meter (CS17 disk - 1,000 revs. - 1,000 g) after 7 days at +23°C (DIN 53109) (mg): 70.

Flexural strength after 28 days at +23°C (EN 196-1) (N/mm²): approx. 80 (MAPEFLOOR I 360 AS without fillers).

Approx. 15 min. at +30°C.

Machine used to take the readings.

these values may vary according to surrounding conditions (temperature and humidity) and the equipment used to take the readings.

Electrical resistance (EN 1081) (Ohm): 104<RE<106.

16 h at +30°C.

Taber Test after 7 days (EN ISO 5470-1) CS17 disk, 1,000 revs - 1,000 g) after 7 days at +23°C (DIN 53109) (mg): 70 mg.

Shore D hardness after 3 days at +23°C (DIN 53505): 77.

Adhesion to concrete (ISO 4624) (N/mm²): 70.

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Shore D hardness after 3 days at +23°C (DIN 53505): 77.

Adhesion to concrete (ISO 4624) (N/mm²): 70.

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Adhesion to concrete (ISO 4624) (N/mm²): 70.
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

**Mapefloor I 900**
Two-component epoxy binder used for preparing trowelled mortar with a damp earth consistency for industrial floors.

**TECHNICAL DATA:**
Colour of mix: transparent yellow.
Consistency of mix: fluid.
Density of mix (kg/m³): 1080.
Viscosity of mix (mPa·s): 270 ± 30 (# 2 - rpm 50).
Pot life at +23°C: approximately 30 min.
Dust dry at +23°C and 50% R.H.: 2-4 hours.
Set to light foot traffic at +23°C and 50% R.H.: 2-4 hours.
Final hardening time: 7 days.
Storage: 24 months in its original sealed packaging.
Application:
- for priming: roller or smooth trowel;
- for mortar: rake and aluminium straight edge.
Consumption:
- as bonding promoter: 0.5-0.7 kg/m²;
- for mortar: recommended ratio for mortar: 1 kg of MAPEFLOOR I 900 (A+B) per 8-13 kg of QUARTZ 1.9, consumption depends on the thickness to be applied.
Packaging: 15 kg kits (A + B).

**Mapefloor I 910**
Two-component epoxy binder for trowelled mortar or bonding promoter for resin coatings.

**TECHNICAL DATA:**
Colour of mix: transparent straw-coloured.
Consistency of mix: thick fluid.
Dust dry at +23°C and 50% R.H.: 2-4 hours.
Set to light foot traffic at +23°C and 50% R.H.: 12 hours.
Final hardening time: 7 days.
Storage: 12 months in its original sealed packaging.
Application:
- as bonding promoter: roller or smooth trowel;
- for mortar: rake and aluminium straight edge.
Consumption:
- as bonding promoter: 0.5-0.7 kg/m²;
- for mortar: recommended ratio for mortar: 1 kg of MAPEFLOOR I 910 (A+B) per 8-13 kg of QUARTZ 1.9, consumption depends on the thickness to be applied.
Packaging: 15 kg kits (A + B).

**Mapefloor I 914**
Two-component epoxy primer for substrates and skim coats before applying waterproofing sheaths on bridges or layers of asphalt. Also suitable for injections, reparation and protection of concrete structure in compliance with requirements defined by EN 1504-5 standards.

**TECHNICAL DATA:**
Colour of mix: transparent straw-coloured.
Consistency of mix: thick fluid.
Dust dry at +23°C and 50% R.H.: 2-4 hours.
Set to light foot traffic at +23°C and 50% R.H.: 12 hours.
Final hardening time: 7 days.
Storage: 12 months in its original sealed packaging.
Application:
- as bonding promoter: roller or smooth trowel;
- for mortar: rake and aluminium straight edge.
Consumption:
- as bonding promoter: 0.5-0.7 kg/m²;
- for mortar: recommended ratio for mortar: 1 kg of MAPEFLOOR I 914 (A+B) per 8-13 kg of QUARTZ 1.9, consumption depends on the thickness to be applied.
Packaging: 15 kg kits (A + B).

**Mapefloor JA**
Two-component thixotropic epoxy adhesive for installing MAPEJOINT 100/25 and MAPEJOINT 100/12 prefabricated polymer jointing profiles and for carrying out small repairs and grouting on concrete surfaces. Also available in Fast version.

**TECHNICAL DATA:**
Consistency of mix: thixotropic paste.
Density of mix (kg/l): 1.65.
Workability time (EN ISO 9514): 70’ (at +23°C).
Setting time: 6 h (at +23°C).
Storage: 24 months in its original sealed packaging stored at a temperature between -5°C and +30°C.
Application: smooth or notched trowel.
Consumption:
- 1.60-1.65 kg/m² per mm of thickness;
- for bonding MAPEJOINT 100/25: 5-6 kg per metre of joint, depending on the irregularity of the substrate.
- for bonding MAPEJOINT 100/12: 2.5-3 kg per metre of joint, depending on the irregularity of the substrate.
Packaging: 6 kg kit (A+B).
Mapefloor Pore Filler
Two-component, flexible polyurethane resin-based adhesive and pore filler/smoothing compound for MAPEFLOOR COMFORT SYSTEM AL/X and MAPEFLOOR COMFORT SYSTEM AR/X.

Available only upon request.

Mapefloor PU 400 LV
Two-component, self-levelling, neutral-coloured, highly flexible polyurethane binder with fillers.

Mapefloor PU 410
Two-component, self-levelling, neutral-coloured, fillerized flexible polyurethane binder.

Mapefloor PU 460
Two-component, aromatic, coloured, elastic, polyurethane resin to form the coating systems MAPEFLOOR COMFORT SYSTEM AR and MAPEFLOOR COMFORT SYSTEM AR/X.

Available only upon request.

**Mapefloor PU 400 LV**

**TECHNICAL DATA:**
- **Colour of mix:** beige - grey.
- **Consistency of mix:** fluid.
- **Pot life at +23°C:** 20 minutes.
- **Dusty dry:** 6 hours.
- **Set to light foot traffic:** 8 hours.
- **Final hardening time:** 16 hours.
- **Elongation (DIN 53504):** approx. 750%.
- **Shore A hardness after 7 days:** 55.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** notched trowel.
- **Consumption:** from 1.5 to 2 kg/m² according to the condition of the substrate.
- **Packaging:** 20 kg kits (A + B).

**Mapefloor PU 410**

**TECHNICAL DATA:**
- **Mixing ratio:** comp. A : comp. B = 16 : 3.9.
- **Colour of mix:** neutral.
- **Consistency of mix:** self-levelling paste.
- **Pot life at +23°C:** 20 minutes.
- **Dusty dry:** 2-4 hours.
- **Set to light foot traffic:** 24 hours.
- **Final hardening time:** 7 days.
- **Elongation (DIN 53504):** approx. 112%.
- **Shore A hardness after 7 days:** 90.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** smooth or notched trowel.
- **Consumption:** as an intermediate layer in the MAPEFLOOR PARKING SYSTEM HE: MAPEFLOOR PU 410 + MAPECOLOR PASTE: 1.0 kg/m².
- **Packaging:** 19.9 kg kits (A + B).

**Mapefloor PU 460**

**TECHNICAL DATA:**
- **Mixing ratio:** component A : component B = 75 : 25.
- **Viscosity of mix at +23°C (mPa·s):** 1,400.
- **Colour of mix:** colours please contact MAPEI Head Office.
- **Consistency of mix:** self-levelling fluid paste.
- **Density of mix (kg/m³):** approx. 1,250.
- **Workability time at +20°C:** approx. 30 mins.
- **Hardening time at +23°C and 50% R.H.:**
  - dust dry: 4 hours;
  - set to foot traffic: 24 hours;
  - full hardening time: 7 days.
- **Storage:** must be stored in its original packaging in a dry place at a temperature of between +5°C and +35°C. Max. 12 months.
- **Application:** notched trowel.
- **Consumption:** approx. 2.5 kg/m² for a 2 mm thick layer.
- **Packaging:** available in 20 kg kits A+B (component A = 15 kg - component B = 5 kg).
**TECHNICAL DATA:**

**Mapefloor PU 461**

Two-component aliphatic, coloured, UV-resistant, elastic, polyurethane, self-levelling resin to form the coating systems MAPEFLOOR COMFORT SYSTEM AL and MAPEFLOOR COMFORT SYSTEM AL/X.

Available only upon request.

**Primer EP Rustop**

Two-component epoxy primer for metal surfaces.

**Primer Grip White**

Multi-purpose, ready-to-use, synthetic resin-based bonding promoter in water dispersion with silica aggregates and very low emission of volatile organic compounds (VOC). For internal floors and walls. Bonding promoter for decorative cementitious skimming mortars from the ULTRATOP LOFT range.

**Primer LT**

Acrylic adhesion promoter for ULTRATOP LOFT and cementitious skimming mortars. For internal use.
**Primer SN**
Two-component epoxy primer with fillers.
May be coloured with MAPECOLOR PASTE.

**Primer SN Rasante**
Two-component, epoxy skimming product for cementitious surfaces, also on vertical surface.

**Primer W-AS**
Two-component epoxy primer in water dispersion for electrically conductive coatings.

**Mapetop N AR6**
Pre-blended, ready-to-use industrial hardener for concrete floors made from special quartz in a granulometric curve, Portland cement and special additives.

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**TECHNICAL DATA:**
- **Primer SN**
  - Colour of mix: black.
  - Consistency of mix: fluid.
  - Density of mix (kg/m³): 1,220.
  - Viscosity of mix (mPa·s): 950 (# 4 - 50 rpm).
  - Workability time: approx. 120 min.
  - Application temperature range: from +10°C to +30°C.
  - Electrical resistance: 107<RE<108 Ohm (typical resistance at earthing points).
  - N.B.: these values may vary according to surrounding conditions (temperature and humidity) and the equipment used to take the readings.
  - Set to foot traffic: approx. 26 h at +10°C; approx 13 h at +20°C; approx 8 h at +30°C.
  - Storage: 12 months in its original packaging.
  - Consumption: 80-100 g/m².
  - Packaging: 8 kg kits (A+B).

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**TECHNICAL DATA:**
- **Primer SN Rasante**
  - Consistency of mix: paste.
  - Colour: straw yellow.
  - Density of mix (kg/m³): 1,550.
  - Viscosity of mix (mPa·s): 45 (# 6 - 20 rpm).
  - Packaging: 25 kg kits (A+B).

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**TECHNICAL DATA:**
- **Primer W-AS**
  - Colour of mix: neutral.
  - Consistency of the mix: thick fluid.
  - Density of mix (kg/m³): 1500.
  - Viscosity of the mix (mPa-s): 1,100 ± 100 (# 3 - rpm 50).
  - Pot life: 30 min.
  - Application temperature range: from +8°C to +35°C.
  - Dust dry at +23°C and 50% R.H.: 6 hours.
  - Set to light foot traffic at +23°C and 50% R.H.: 24 hours.
  - Final setting time: 7 days.
  - Storage: 24 months in its original sealed packaging.
  - Application: flat trowel or flat rake.
  - Consumption: 0.3-0.7 kg/m² per coat, depending on the absorbency and characteristics of the substrate.
  - Packaging: 20 kg kits (A+B); 5 kg kits (A+B).

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**TECHNICAL DATA:**
- **Mapetop N AR6**
  - Colour of mix: grey, light grey, anthracite, green, brown, red.
  - pH of mix: ~12.5.
  - Application temperature range: from +5°C to +35°C.
  - Compressive strength EN 13892/2 (N/mm²): 30 (after 1 day); 70 (after 28 days).
  - Flexural strength EN 13892/2 (N/mm²): 45 (# 6 - 20 rpm).
  - Bond strength on concrete (substrate in MO 0.40 - water/cement ratio = 0.40) according to EN 1766 (N/mm²): ≥ 2 (after 28 days).
  - Impermeability to water - penetration depth - EN 12390/8 (mm): ≤ 0.5.
  - Coefficient of capillary absorption EN 1062/3 (kg/m²·h0.5): < 0.1.
  - Böhme abrasion resistance EN 13892/3: Class 6.
  - Reaction to fire EN 13501: Euroclass A1-s1, d2.
  - Storage: 12 months in its original sealed packaging.
  - Application: by dusting.
  - Consumption:
    - manual application: from 1.5 to 2.5 kg/m² per coat;
    - mechanical application: from 3 to 5 kg/m².
  - Packaging: 25 kg bags.
**Mapetop S AR3**
Pre-blended dry-shake hardener for concrete floors made of special aggregates based on corundum, Portland cement and special additives.

**Ultratop**
Self-levelling, ultra-quick hardening mortar with special hydraulic binders, applied at a thickness between 5 and 40 mm to create abrasion-resistant floors.

**Ultratop Base Coat**
One-component acrylic formulate in water dispersion used as a base coat before applying protective finishes on ULTRATOP, ULTRATOP LIVING and ULTRATOP LOFT.

**Ultratop Easycolor**
Colouring solution for cementitious-based ULTRATOP LOFT systems.

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**11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS**

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**TECHNICAL DATA:**
- **Colour of mix:** grey, other colours available on request.
- **Density of mix (kg/m³):** 2,400.
- **pH of mix:** >12.5.
- **Application temperature:** +5°C to +35°C.
- **Compressive strength (EN 13892/2) (N/mm²):** 50 (after 3 days) - 70 (after 28 days).
- **Flexural strength (EN 13892/2) (N/mm²):** 7 (after 3 days) - 9 (after 28 days).
- **Adhesion to concrete (substrate in MC 0.40 - water/cement ratio = 0.40) according to EN 1766 (N/mm²):** ≥ 2 (after 28 days).
- **Böhme abrasion resistance EN 13892-3: Class 3. Reaction to fire EN 13501: Euroclass A1 FL.**
- **Storage:** 12 months in its original sealed packaging.
- **Application:** dry-shaking.
- **Consumption:**
  - manual application: 2.5 to 5.5 kg/m² per coat;
  - mechanical application: 5 to 8 kg/m².
- **Packaging:** 25 kg bags.

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**TECHNICAL DATA:**
- **Colour:** white, beige, light grey, red, anthracite and standard.
- **Mixing ratio:** 20-22 parts of water per 100 parts in weight of ULTRATOP.
- **Applicable thickness:** from 5 to 40 mm.
- **Self-levelling:** yes.
- **Workability time:** 15 minutes.
- **Setting time:** 60 minutes.
- **Compressive strength after 28 days at +23°C:** ≥ 40 N/mm².
- **Böhme abrasion resistance after 28 days at +23°C:** 9 cm³/50 cm².
- **Reaction to fire EN 13501:** Euroclass A1 FL.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** by hand or mortar pump.
- **Consumption:** 16.5-17.5 kg/m² per cm of thickness.
- **Packaging:** 25 kg bags.

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**TECHNICAL DATA:**
- **Colour:** white.
- **Consistency:** liquid.
- **Consumption:** 50-80 g/m² depending on the porosity of the substrate.
- **Packaging:** 10 kg tanks.

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**TECHNICAL DATA:**
- **Colour:** various.
- **Storage:** 18 months in a dry area in its original packaging at a temperature of +5°C to +30°C.
- **Application:** mix with ULTRATOP LOFT F or ULTRATOP LOFT W using an electric mixer at low speed to form a well-blended, lump-free coloured mix.
- **Consumption:** 1 x 1.5 l drum every 5 kg of ULTRATOP LOFT.
- **Packaging:** 1.5 l drums.
**Ultratop Living**
Self-leveling, ultra-quick setting mortar with special hydraulic binders, applied at a thickness between 5 and 15 mm to create abrasion-resistant internal floors

**Technical Data:**
- **Consistency:** Fine powder.
- **Colour:** White, light grey, anthracite and natural.
- **Mixing Ratio:** 19-21 parts of water per 100 parts in weight of ULTRATOP LIVING.
- **Applicable Thickness:** From 5 to 15 mm.
- **Self-leveling:** Yes.
- **Workability Time:** 15 minutes.
- **Setting Time:** 60-80 minutes.
- **Compressive Strength After 28 Days at +23°C:** ≥ 32 N/mm².
- **Böhme Abrasion Resistance After 28 Days at +23°C:** 11 cm²/50 cm².
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months in its original sealed packaging.
- **Application:** By hand or mortar pump.
- **Consumption:** 16.5-17.5 kg/m² per cm of thickness.
- **Packaging:** 25 kg bags.

**Ultratop Loft F**
One-component trowelable coarse-textured cementitious paste applied in layers up to 2 mm thick to create decorative floors with a trowelled or mottled effect.

**Technical Data:**
- **Consistency:** Powder.
- **Colour:** White or natural.
- **Bulk Density:** 1,100 kg/m³.
- **Mixing Ratio:** Approx. 25-29 parts of water per 100 parts by weight of ULTRATOP Loft F.
- **Workability Time:** 20 minutes.
- **Setting Time:** 80 minutes.
- **Compressive Strength at +23°C After 28 Days:** 25 N/mm².
- **Flexural Strength at +23°C After 28 Days:** 10 N/mm².
- **Abrasion Resistance - Taber Abrasion Meter (H22 disk, 500 g, 200 revs) After 28 Days:** 500 mg.
- **Böhme Abrasion Resistance Class (Böhme Test) After 28 Days:** A9.
- **Application:** Smooth steel, Teflon or rubber trowel.
- **Consumption:** 0.7-1 kg/m².
- **Packaging:** 20 kg bags. Kits containing 4x5 kg alupacks.

**Ultratop Loft W**
One-component trowelable fine-textured cementitious paste applied in layers up to 2 mm thick to create decorative floors with a trowelled or mottled effect.

**Technical Data:**
- **Consistency:** Fine powder.
- **Colour:** White or natural.
- **Bulk Density:** 900 kg/m³.
- **Mixing Ratio:** Approx. 32-35 parts of water per 100 parts by weight of ULTRATOP Loft W.
- **Workability Time:** 20 minutes.
- **Setting Time:** 80 minutes.
- **Compressive Strength at +23°C After 28 Days:** 25 N/mm².
- **Flexural Strength at +23°C After 28 Days:** 10 N/mm².
- **Abrasion Resistance - Taber Abrasion Meter (H22 disk, 500 g, 200 revs) After 28 Days:** 500 mg.
- **Böhme Abrasion Resistance Class (Böhme Test) After 28 Days:** A9.
- **Application:** Smooth steel, Teflon or rubber trowel.
- **Consumption:** 0.7-1 kg/m².
- **Packaging:** 20 kg bags. Kits containing 4x5 kg alupacks.

**Ultratop Stucco**
Grout made from special hydraulic binders for sealing micro-porosity which forms after the first polishing phase of ULTRATOP.

**Technical Data:**
- **Consistency:** Fine powder.
- **Colour:** White, beige, light grey, red, anthracite and standard.
- **Storage:** 12 months in its original sealed packaging.
- **Bulk Density:** 850 kg/m³.
- **Mixing Ratio:** 30-40 parts of water per 100 parts by weight of ULTRATOP STUCCO.
- **Application:** Rubber trowel.
- **Consumption:** According to the micro-porosity.
- **Packaging:** 5 kg drums.
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

11.3 Complementary products for resin and cementitious floors

**Additix PE**
Admixture to make epoxy and polyurethane products thicker with a thixotropic consistency.

**Copper Band**
Self-adhesive copper strip to make conductive and dissipative surfaces.

**Epoxy Speed**
Solvent-free accelerator for epoxy primers.

**Gravel - Bardiglio Grey (2-4 mm)**
Dried bardiglio grey marble aggregate in a special granulometric curve from 2 to 4 mm to make decorative surfaces with good drainage properties. Use in combination with MAPEFLOOR BINDER 930 one-component, aliphatic, polyurethane binder.

**TECHNICAL DATA:**
- **Appearance:** powder.
- **Colour:** white.
- **Density:** 960 kg/m³.
- **Consumption:** 1.5-5% by weight on the weight of the resin.
- **Packaging:** 1 kg drums.

**TECHNICAL DATA:**
- **Appearance:** liquid.
- **Colour:** light yellow.
- **Density:** 0.97 g/m³.
- **Viscosity at +23°C:** 200 mPa·s.
- **Consumption:** 2-3% of the total weight of the epoxy binder used (A+B).
- **Packaging:** 5 kg drums.

**TECHNICAL DATA:**
- **Length:** 16.5 metres.
- **Width:** 10 millimetres.
- **Packaging:** cardboard box containing 20 bags with 1 roll of 16.5 m x 10 mm COPPER BAND per bag.

**TECHNICAL DATA:**
- **Appearance:** powder.
- **Colour:** white.
- **Density:** 960 kg/m³.
- **Consumption:** 1.5-5% by weight on the weight of the resin.
- **Packaging:** 1 kg drums.
**Gravel - Carrara White (2-4 mm)**

Dried carrara white marble aggregate in a special granulometric curve from 2 to 4 mm to make decorative surfaces with good drainage properties. Use in combination with MAPEFLOOR BINDER 930 one-component, aliphatic, polyurethane binder.

**Gravel - Ebony Black (2-4 mm)**

Dried ebony black marble aggregate in a special granulometric curve from 2 to 4 mm to make decorative surfaces with good drainage properties. Use in combination with MAPEFLOOR BINDER 930 one-component, aliphatic, polyurethane binder.

**Mapecomfort FL**

Rubber matting made from granules of recycled rubber for creating MAPEFLOOR COMFORT SYSTEM AL/X and MAPEFLOOR COMFORT SYSTEM AR/X. Thickness 4 mm.

**Gravel - Ebony Black (2-4 mm)**

Dried ebony black marble aggregate in a special granulometric curve from 2 to 4 mm to make decorative surfaces with good drainage properties. Use in combination with MAPEFLOOR BINDER 930 one-component, aliphatic, polyurethane binder.

**Mapefibre Glass HP**

Alkali-resistant glass fibres for reinforcing cementitious mortar and resin.
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

**Mapefloor Cleaner ED**
Detergent for normal degreasing operations of floors.

**TECHNICAL DATA:**
- **Appearance:** opaque liquid.
- **Colour:** green.
- **Solubility in water:** soluble.
- **Storage:** by hand or rendering machine.
- **Packaging:** 10 kg tanks.

**Mapefloor Filler**
Calibrated fillers added to MAPEFLOOR FINISH 50 N, MAPEFLOOR FINISH 52 W, MAPEFLOOR FINISH 53 W/L, MAPEFLOOR FINISH 54 W/S, MAPEFLOOR FINISH 58 W and MAPECOAT I 620 W to form a non-slip finish.

**TECHNICAL DATA:**
- **Appearance:** crystalline powder.
- **Colour:** white.
- **Particle size distribution:**
  - 35% (100 µm residues);
  - 85% (45 µm residues).
- **Consumption:** 5-10 g/m².
- **Packaging:** 0.3 kg plastic buckets.

**Mapefloor Maintenance Kit**
A series of products for cleaning and periodic maintenance of floors to guarantee their performance characteristics and attractive finish.

**TECHNICAL DATA:**
- **Storage:** 12 months in their original, sealed packaging at a temperature of between +10°C and +30°C. Protect from frost.
- **Packaging:** MAPEFLOOR MAINTENANCE KIT is made up of the following products:
  - MAPELUX LUCIDA: 1x5 kg;
  - MAPEFLOOR WAX REMOVER: 1x5 kg;
  - MAPEFLOOR CLEANER ED: 2x5 kg.

**Mapefloor Wax Remover**
De-waxing, multi-action detergent for removing all types of metallic wax including the double-reticulation type, such as MAPELUX LUCIDA or MAPELUX OPACA.

**TECHNICAL DATA:**
- **Appearance:** liquid.
- **Colour:** pink.
- **Solubility in water:** soluble.
- **Solubility in oil:** insoluble.
- **Storage:** 24 months in its original sealed packaging.
- **Packaging:** 10 kg.
**Mapejoint 100/25**
Pre-cast composite polymeric joint to be inserted in old, damaged and worn joints, including those with large amounts of movement or subject to intense traffic in industrial settings. Also available in 120 mm length Mapejoint 100/12

**PU Catalyst**
Accelerator for polyurethane MAPEFLOOR PARKING SYSTEM products.

**Mapelux Lucida**
Double-reticulation, high-strength shiny metallic wax.

**Mapelux Opaca**
Double-reticulating, high-strength matt metallic wax.

**Mapejoint 100/25**
**TECHNICAL DATA:**
- **Dimensions:** length: 1000 mm, width: 250 mm, thickness: 25 mm.
- **Colour:** grey.
- **Maximum width of open joint:** 30 mm.
- **Maximum permitted horizontal movement:** 15 mm.
- **Compressive strength:** 90 N/mm².
- **Flexural strength:** 75 N/mm².
- **Packaging:** 1000 mm long pieces measuring 250 mm wide by 25 mm thick.

**Mapejoint 100/25**
**Area of use:** add PU CATALYST at a rate of 0.5-1.5% of the total weight of polyurethane formulate (A+B) used.
- **Storage:** 12 months in a dry place in its original packaging.
- **Consumption:** 0.5-1.5% of the total weight of polyurethane formulate (A+B) used.
- **Packaging:** 5 kg drums.

**Mapejoint 100/25**
**Application:** special wax spreader.
- **Consumption:** 50 g/m².
- **Packaging:** 10 kg drums.

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- **Consumption:** 50 g/m².
- **Packaging:** 10 kg drums.
11. PRODUCTS FOR RESIN AND CEMENTITIOUS FLOORS

**Quartz 0.25**
Quartz sand used as a “filler” and/or for broadcasting on epoxy and polyurethane systems.

**TECHNICAL DATA:**
- Colour: greyish white.
- Maximum size of inerts: 0.25 mm.
- Packaging: 25 kg bags.

**Quartz 0.5**
Quartz sand used as a “filler” and/or for broadcasting on epoxy and polyurethane systems.

**TECHNICAL DATA:**
- Colour: greyish white.
- Maximum size of inerts: 0.5 mm.
- Packaging: 25 kg bags.

**Quartz 0.9**
Quartz sand used as a filler and/or for broadcasting epoxy and polyurethane systems.

**TECHNICAL DATA:**
- Colour: greyish white.
- Maximum size of aggregates: 0.9 mm.
- Packaging: 25 kg bags.

**Quartz 1.2**
Quartz sand used as a “filler” and/or for broadcasting on epoxy and polyurethane systems.

**TECHNICAL DATA:**
- Colour: greyish white.
- Maximum size of inerts: 1.2 mm.
- Packaging: 25 kg bags.
Quartz 1.9
Mixture of calibrated spherical quartz used as a filler in MAPEFLOOR I 900 or MAPEFLOOR I 910 for preparing mortar with a consistency similar to a mortar screed.

TECHNICAL DATA:
Colour: light grey.
Maximum size of inerts: 1.9 mm.
Consumption: recommended ratio for mortar: 8-13 kg of QUARTZ 1.9 per kg of MAPEFLOOR I 900 (A+B).
Packaging: 25 kg bags.

Rete 320
Glass fibre mesh for reinforcing epoxy systems.

TECHNICAL DATA:
Weight: 350 g/m².
Mesh size: 15.7 x 10.1 mm.
Packaging: 50 x 1 m.
PRODUCTS FOR REPAIRING ASPHALT AND HIGHWAY MAINTENANCE
## 12. PRODUCTS FOR REPAIRING ASPHALT AND HIGHWAY MAINTENANCE

### Mape-Asphalt Repair 0/8

One-component, ready-to-use reactive asphalt, applied cold, for repairing holes in roads.

**TECHNICAL DATA:**
- Maximum size of aggregate: 8 mm.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness: 70 mm.
- Step-on time: immediate.
- Application temperature range: from 0°C to +35°C.
- Storage: 9 months.
- Application: trowel, spatula, rake or shovel.
- Consumption: approximately 23 kg/m² per centimetre of thickness.
- Packaging: 25 kg drums.

### Mapefloor EP 90

Three-component high performance epoxy screed consistency mortar for repairing concrete flooring and forming support layers for beams and joints.

**TECHNICAL DATA:**
- Consistency of mix: screed consistency.
- Pot life of mix: approx. 50 minutes (at +23°C).
- Minimum applicable thickness: 5 mm.
- Maximum applicable thickness: 5 cm per layer.
- Classification:
  - EN 1504-3 - class R4 structural mortar;
  - EN 13813 - synthetic resin screed materials.
- Storage: 24 months.
- Application: trowel.
- Consumption: approx. 20 kg/m² per cm of thickness.
- Packaging: 26.75 kg kit:
  - 1.95 kg canister (comp. A);
  - 0.80 kg canister (comp. B);
  - 24 kg vacuum-packed polyethylene sack (comp. C).

### Mapegrout Betontech HPC

Free-flowing, shrinkage compensated cementitious grout with added polymer fibre reinforcement with a work-hardening effect for restoring concrete requiring a high level of ductility.

**TECHNICAL DATA:**
- Maximum size of aggregate: 6 mm.
- Mixing ratio:
  - 100 parts of MAPEGROUT BETONTECH HPC with 11.5-12.5 parts of water and 0.25% of MAPECURE SRA.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 3 cm.
- Maximum applicable thickness: 10 cm.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: pouring into formwork.
- Consumption: approx. 20.5 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

### Mapegrout Betontech HPC10

Rheoplastic cementitious mortar with added structural fibre reinforcement with a work-hardening effect for restoring concrete requiring a high level of ductility.

**TECHNICAL DATA:**
- Maximum size of aggregate: 10 mm.
- Mixing ratio:
  - 100 parts of MAPEGROUT BETONTECH HPC10 with 9.5-10.0 parts of water.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 5 cm.
- Maximum applicable thickness: 30 cm.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: pouring into formwork.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.
### Mapegrout Hi-Flow TI 20

Hi-flow, compensated-shrinkage, steel fibre-reinforced, high-ductility cementitious mortar.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT HI-FLOW TI 20 with 14-16 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approximately 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapegrout SV

Quick-setting and hardening, compensated-shrinkage hi-flow mortar for repairing concrete and fixing drains, manholes and urban architectural fittings in place.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT SV with 12-13 parts of water.
- **Pot life of mix:** 15 minutes (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Colour:** grey and black.
- **Application:** pouring into formwork.
- **Consumption:** 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapegrout SV Fiber

Hi-flow, steel fibre-reinforced compensated-shrinkage, quick-setting and hardening, high-ductility cementitious mortar applied at temperatures down to -5°C, with stiff steel fibres for repairing concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT SV FIBER with 13.5-14.5 parts of water.
- **Pot life of mix:** approximately 20 minutes (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approximately 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapegrout SV T

Quick-setting and hardening, compensated-shrinkage thixotropic mortar for repairing concrete and fixing drains, manholes and urban fittings in place.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT SV T with 12.5-13.5 parts of water.
- **Pot life of mix:** 10 minutes (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Colour:** black.
- **Application:** gauging trowel or trowel.
- **Consumption:** 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
**Primer RM**

Two-component fillerized epoxy primer for treating the surface of concrete before applying epoxy mortar.

**TECHNICAL DATA:**
- **Mixing ratio:** comp A : comp. B = 60 : 40.
- **Consistency of mix:** fluid.
- **Pot life of mix:** approx. 30 mins. (at +23°C).
- **Storage:** 12 months.
- **Application:** spreader, brush or roller.
- **Consumption:** approx. 450 g/m² depending on the absorbency of the substrate.
- **Packaging:** 2 kg kit:
  - 1.2 kg tub (comp. A);
  - 0.8 kg canister (comp. B).
PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS
13. PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS

13.1 Consolidating various types of weak and crumbly substrates (porous stone, brickwork, tuff, installation mortar, render, etc.) by impregnating

**Consolidante 8020**
Reversible consolidating product in solvent for the conservative restoration and consolidation of porous stone substrates, lime render and layers of paint.

**TECHNICAL DATA:**
- **Consistency:** colourless liquid.
- **Active ingredient:** vinyl-versatile copolymers.
- **Density:** 0.81 g/cm³.
- **Dry solids content:** 3%.
- **Storage:** 12 months.
- **Application:** brush, roller or spray (low pressure manual spray gun).
- **Consumption:** 0.1-1.0 kg/m² (according to the type of substrate, porosity and depth to be consolidated).
- **Packaging:** 10 kg metallic drums.

**Consolidante ETS**
Tetraethyl orthosilicate-based consolidator in solvent for the conservative renovation and consolidation of porous stone, bricks, terracotta and render.

**TECHNICAL DATA:**
- **Consistency:** colourless liquid.
- **Active ingredient:** tetraethyl orthosilicate.
- **Density:** 0.94-1.010 g/cm³.
- **Storage:** 12 months.
- **Application:** brush, roller or spray pack or injection with hand or electronic pump.
- **Consumption:** 0.1-1.0 kg/m² (depending on type of substrate and depth to be consolidated).
- **Packaging:** 10 kg metal drums.

**Consolidante ETS WR**
Water-repellent, tetraethyl orthosilicate-based consolidator in solvent for the conservative renovation and consolidation of porous stone, bricks, terracotta and render.

**TECHNICAL DATA:**
- **Consistency:** colourless liquid.
- **Active ingredient:** tetraethyl orthosilicate.
- **Density:** 0.94-1.010 g/cm³.
- **Storage:** 12 months.
- **Application:** brush, roller or spray pack or injection with hand or electronic pump.
- **Consumption:** 0.1-1.0 kg/m² (depending on type of substrate and depth to be consolidated).
- **Packaging:** 10 kg metal drums.

**Primer 3296**
Consolidating and anti-dust acrylic primer in water dispersion.

**TECHNICAL DATA:**
- **Dry solids content:** 15%.
- **Storage:** 12 months.
- **Application:** brush, roller or watering can.
- **Consumption:** 0.1-0.5 kg/m² (according to the absorption and porosity of the surface to be treated).
- **Packaging:** 5 and 10 kg tanks.
13.2 Reconditioning and consolidating masonry with free-flowing mortar

**Mape-Antique Colabile**
Salt-resistant, hi-flow natural hydraulic lime and ECO-POZZOLAN-based masonry mortar for reconditioning and consolidating masonry.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE COLABILE with 12 parts water (3 litres of water per 25 kg bag of product) and 0.25% of MAPECURE SRA (one 0.25 kg canister every 4 bags of MAPE-ANTIQUE COLABILE).
- **Porosity of fresh mortar:** 7%.
- **Workability time of fresh mortar:** approx. 60 mins.
- **Classification:** EN 998-2 - type G mortar, category M15.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** by pouring or pumping.
- **Consumption:** 1.83 kg/dm³ (of cavities to be filled).
- **Packaging:** 25 kg bags.

13.3 Consolidating masonry and render by injecting slurry

**Mape-Antique F21**
Super-fluid, salt-resistant, hydraulic binder with fillers made from lime and ECO-POZZOLAN applied by injection for consolidating masonry and render, including the frescoed ones.

**TECHNICAL DATA:**
- **Maximum diameter of aggregate:** 100 µm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE F21 with approx. 60 parts of water (10.2 l of water for each 17 kg bag of product).
- **Fluidity of the mixture:** < 30 sec.
- **Workability time of fresh mortar:** approx. 40 minutes.
- **Sulphate resistance:** high.
- **Saline efflorescence:** absent.
- **Storage:** 12 months.
- **Application:** injection or by pouring.
- **Consumption:** 1.04 kg/dm³ (of cavities to be filled).
- **Packaging:** 17 kg bags.

**Mape-Antique I**
Super-fluid, salt-resistant, lime and ECO-POZZOLAN-based, hydraulic binder with fillers applied by injection for consolidating masonry.

**TECHNICAL DATA:**
- **Maximum diameter of aggregate:** 100 µm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE I with 35 parts of water (7 l of water for each 20 kg bag of product).
- **Fluidity of the mixture:** < 30 sec.
- **Workability time of fresh mortar:** 60 minutes.
- **Sulphate resistance:** high.
- **Saline efflorescence:** absent.
- **Storage:** 12 months.
- **Application:** injection or by pouring.
- **Consumption:** approx. 1.40 kg/dm³ (of cavities to be filled).
- **Packaging:** 20 kg bags.

**Mape-Antique I-15**
Salt-resistant, fillerized, lime and ECO-POZZOLAN-based hydraulic binder for making super-fluid injection slurry for consolidating masonry.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 100 µm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE I-15 with 30 parts water (6 litres of water per 25 kg bag of product).
- **Fluidity of mix:** < 30 sec.
- **Workability time of fresh mortar:** approx. 60 mins.
- **Compressive strength after 28 days:** 15 N/mm².
- **Resistance to sulphates:** high.
- **Saline efflorescence:** absent.
- **Application:** injection or pouring.
- **Consumption:** approx. 1.50 kg/dm³ (of cavities to be filled).
- **Packaging:** 20 kg bags.
13. PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS

**MapeWall Inject & Consolidate**
Reactive natural hydraulic lime-based inorganic binder with very low emission of VOC used to make super-fluid injection slurry for consolidating masonry.

**TECHNICAL DATA:**
- Maximum size of aggregate: 100 µm.
- Mixing ratio: 100 parts of MAPEWALL INJECT & CONSOLIDATE with 29-30 parts of water (5.8-6.0 litres of water per 20 kg bag of product).
- Fluidity of mix: < 40 sec.
- Workability time of fresh mortar: approx. 60 mins.
- Classification: EN 998-2 - type G mortar, class M15.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: injection or pouring.
- Consumption: approx. 1.50 kg/dm³ (of cavities to be filled).
- Packaging: 20 kg bags.

13.4 Horizontal chemical barriers against capillary rising damp

**Mapestop**
Agent applied by injection made from micro-emulsion, concentrated silane and siloxane used to form a chemical barrier against capillary rising damp in masonry.

**TECHNICAL DATA:**
- Dimension of particles: 20-60 µm.
- Silane/siloxane content: 100%.
- Duration of solution: 24 hours.
- Storage: 12 months.
- Application: by gravity or suitable injection pump.
- Consumption: according to the absorption of the masonry. Approximately 8-9 kg/m² of solution for a 40 cm thick wall, corresponding to 0.4-0.6 kg of neat MAPESTOP.
- Packaging: 1 and 10 kg metal can with spout.

**Mapestop Cream**
Monomeric silane-based creamy emulsion for creating chemical barriers against capillary rising damp.

**TECHNICAL DATA:**
- Consistency: creamy paste.
- Colour: white.
- Density: 0.98 g/cm³.
- Storage: 12 months.
- Application: sealant gun for 280 ml cartridge and 600 ml sausage gun such as MAPEI GUN 600 PRO.
- Consumption: according to type and thickness of masonry. Approx. 10 ml per metre per cm of thickness of masonry for 12 mm diam. holes.
- Packaging: box of 12 x 280 ml cartridges, Box of 10 x 600 ml sausages with one injection tool included.

**Mapestop Cream Tool 280**
MAPESTOP CREAM injection tube to be used with manual extrusion guns for 280 ml cartridges.
**TECHNICAL DATA:**

- **Maximum diameter of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE CC with 14-16 parts of water (3.5-4 l of water for each 25 kg bag of product).
- **Porosity of the mix while still fresh:** > 20%.
- **Coefficient of permeability to water vapour:** ≤ 10 µ.
- **Workability time of fresh mortar:** approx. 1 hour.
- **Minimum applicable thickness:** 20 mm.
- **Maximum applicable thickness per layer:** 30 mm.
- **Classification:** EN 998-1 - type R mortar, category CS II.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Colour:** light pink.
- **Application:** gauging trowel.
- **Consumption:** 15 kg/m² (per cm of thickness).
- **Packaging:** 25 kg bags.

**Mape-Antique CC**
Macro-porous, salt-resistant dehumidifying render made from lime and ECO-POZZOLAN cement-free, for repairing old masonry, including on buildings of historical interest.

**Mapestop Injectors**
Spare parts kit for MAPESTOP KIT DIFFUSION.

**Mapestop Kit Diffusion**
Complete kit to create a slow-diffusion chemical barrier against capillary rising damp.

**Mapestop Cream Tool 600**
MAPESTOP CREAM injection tube to be used with manual extrusion guns for 600 ml sausages.

**Mapestop Cream Tool 600**

**Mapestop Injectors**

**Mapestop Kit Diffusion**

**13.5 De-humidifying masonry with binders and mortars for render**
### Mape-Antique MC
**TECHNICAL DATA:**
- Maximum diameter of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE MC with 14-16 parts of water (3.5-4.65 litres of water per 20 kg bag of product).
- Porosity of the mix while still fresh: > 20%.
- Water vapour permeability coefficient: ≤ 30 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Colour: white.
- Application: gauging trowel.
- Consumption: 15 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

### Mape-Antique LC
**TECHNICAL DATA:**
- Mixing ratio:
  - 0.5-2.5 mm sand: 500 kg/m³ of MAPE-ANTIQUE LC with 1,000 kg/m³ of sand and 225 l/m³ of water;
  - 0.5-5 mm sand: 450 kg/m³ of MAPE-ANTIQUE LC with 1,150 kg/m³ of gravel and 210 l/m³ of water;
  - 0-8 mm sand: 400 kg/m³ of MAPE-ANTIQUE LC with 1,300 kg/m³ of gravel and 200 l/m³ of water;
- Storage: 12 months.
- Application: gauging trowel or by pouring.
- Consumption: approximate (per cm of thickness):
  - ~5.0 kg/m² with fine sand (0.5-2.5 mm);
  - ~4.5 kg/m² with coarse sand (0.5-5 mm);
  - ~4.0 kg/m² with gravel (0-8 mm).
- Packaging: 25 kg bags.

### Mape-Antique Eco Risana
**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE ECO RISANA with 21-23 parts of water (5.25-5.75 litres of water per 25 kg bag of product).
- Porosity of wet mortar: > 20%.
- Water vapour permeability coefficient: ≤ 10 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: by trowel or with a continuous-feed rendering machine.
- Consumption: 14 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

### Mape-Antique Eco Rinzaffo
**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE ECO RINZAFFO with 21-23 parts of water (4.20-4.65 litres of water per 20 kg bag of product).
- Porosity of wet mortar: > 5%.
- Water vapour permeability coefficient: ≤ 30 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Thickness applied: 5 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: by trowel or with a continuous-feed rendering machine.
- Consumption: 8 kg/m² (5 mm thick layer).
- Packaging: 20 kg bags.
<table>
<thead>
<tr>
<th><strong>Mape-Antique MC Macchina</strong></th>
<th><strong>Mape-Antique Rinzafo</strong></th>
<th><strong>PoroMap Deumidificante</strong></th>
<th><strong>PoroMap Rinzafo Plus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Macro-porous, salt-resistant, lime and ECO-POZZOLAN cement-free, based render for repairing existing masonry, including on buildings of historical interest.</td>
<td>Salt-resistant, breathable, lime and ECO-POZZOLAN cement-free, scratch-coat mortar applied as a base layer for de-humidifying, breathable and “structural” render.</td>
<td>Salt-resistant dehumidifying render for renovating masonry with rising damp.</td>
<td>Salt-resistant, breathable, scratch-coat mortar, based on hydraulic pozzolanic reaction binder, to be used as first layer to improve the bond of the render and even out the absorption of the substrate.</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of POROMAP RINZAFFO PLUS with 19-21 parts of water (4.75-5.25 litres of water per 25 kg bag of product).
- Porosity of the mortar while still fresh: >20%.
- Coefficient of permeability to water vapour: ≤ 10 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Colours: white.
- Application: continuous-mixing rendering machine.
- Consumption: 16 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

- Maximum diameter of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE RINZAFFO with 25-27.5 parts of water (5-5.5 l of water for each 20 kg bag of product).
- Porosity of the mix while still fresh: 6%.
- Coefficient of permeability to water vapour: ≤ 30 μ.
- Workability time of fresh mortar: approx. 1 hour.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 50 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: continuous-mixing rendering machine or gauging trowel.
- Consumption: 7.5 kg/m² (for a 5 mm thick layer).
- Packaging: 20 kg bags.

- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUA MC MACCHINA with 19-21 parts of water (4.75-5.25 litres of water per 25 kg bag of product).
- Porosity of the mortar while still fresh: >20%.
- Coefficient of permeability to water vapour: ≤ 10 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - GP type mortar, class CS IV.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Colours: white.
- Application: trowel or continuous-feed rendering machine.
- Consumption: 7.5-8 kg/m² (per 5 mm of thickness).
- Packaging: 25 kg bag.

- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of POROMAP DEUMIDIFICANTE with 22-24 parts of water (4.4-4.8 litres of water per 20 kg bag of product).
- Porosity of wet mortar: >20%.
- Water vapour permeability coefficient: <10 μ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 20 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: by trowel or with a continuous-feed rendering machine.
- Consumption: 11-12 kg/m² (per cm of thickness).
- Packaging: 20 kg bags.
13. PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS

13.6 Lime based breathable renders

**Mape-Antique Intonaco NHL**

Breathable base render made from natural hydraulic lime and ECO-POZZOLAN, cement-free, for application on existing masonry work, including those of historical interest, and on new constructions.

**Technical Data:**
- Maximum diameter of aggregate: 1.4 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE INTONACO NHL with 19-21 parts of water (4.75-5.25 l of water for each 25 kg bag of product).
- Porosity of the mortar while still fresh: 20%.
- Coefficient of permeability to water vapour: ≤ 12 µ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: continuous-mixing rendering machine or gauging trowel.
- Consumption: approx. 14.5 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

**MapeWall Intonaco Base**

Breathable natural hydraulic lime-based base render for external and internal use; to be applied by trowel or with a rendering machine.

**Technical Data:**
- Maximum size of aggregate (EN 1015-1): 1.4 mm.
- Mixing ratio: 100 parts of MAPEWALL INTONACO BASE with 19-21 parts of water (4.8-5.2 litres of water per 25 kg bag of product).
- Coefficient of permeability to water vapour: ≤ 12 µ.
- Workability time of wet mortar (EN 1015-9): approx. 60 min.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 20 mm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: with a continuous-mixing rendering machine or by trowel.
- Consumption: approx. 15 kg/dm² (per cm of thickness).
- Packaging: 25 kg bags.

**Mape-Antique Strutturale NHL**

High-performance breathable mortar for render and masonry work made from natural hydraulic lime and ECO-POZZOLAN, cement-free, particularly suitable for making “reinforced” and installation mortar.

**Technical Data:**
- Maximum diameter of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE STRUTTURALE NHL with 16-17 parts of water (4.425 l of water for each 25 kg bag of product).
- Porosity of the mortar while still fresh: 7%.
- Coefficient of permeability to water vapour: 60 µ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 40 mm.
- Classification: – EN 998-1 - type GP mortar, category CS IV; – EN 998-2 - type G mortar, class M 15.
- Storage: 12 months.
- Application: continuous-mixing rendering machine or gauging trowel.
- Consumption: approx. 17 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

**MapeWall Render & Strengthen**

High strength natural hydraulic lime-based breathable rendering and masonry mortar with very low emission of VOC for making structural render, “reinforced” structural render and installation mortar.

**Technical Data:**
- Maximum size of aggregate: 2.5 mm
- Mixing ratio: 100 parts of MAPEWALL RENDER & STRENGTHEN with 16-18 parts of water (4.0-5.0 litres of water per 25 kg bag of product).
- Water vapour permeability coefficient: 20 µ.
- Workability time of fresh mortar: approx. 60 mins.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: – EN 998-1 - type GP mortar, category CS IV; – EN 998-2 - type G mortar, class M15.
- Storage: 12 months.
- Colour: hazel, beige and grey.
- Application: by trowel or with a continuous-mixing rendering machine.
- Consumption: approx. 16 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.
13.8 Skimming of de-humidifying breathable and structural mortars

**Mape-Antique Eco Rasante Civile**
Fine-textured, breathable, natural hydraulic lime cement-free, skimming mortar for a natural finish on render.

**Mape-Antique Eco Rasante Grosso**
Coarse-textured, breathable, natural hydraulic lime cement-free, skimming mortar for a coarse-textured finish on render.

**Mape-Antique FC Civile**
Salt-resistant, fine-grained lime and ECO-POZZOLAN cement-free, breathable skimming mortar for a natural finish on render.

**Mape-Antique FC Grosso**
Salt-resistant, large-grained lime and ECO-POZZOLAN cement-free, breathable skimming mortar for a rough finish on render.

### TECHNICAL DATA:
- **Maximum size of aggregate:** 400 µm.
- **Mixing ratio:** 100 parts of MAPE-ANTIQUE FC with 22-24 parts of water (5.5-6 litres of water per 25 kg bag of product).
- **Workability time of fresh mortar:** approx. 60 min.
- **Maximum applicable thickness per layer:** 2 mm.
- **Classification:** EN 998-1 - type GP mortar, category CS IV.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** 12 months.
- **Application:** flat metal trowel.
- **Consumption:** 1.40 kg/m² (per mm of thickness).
- **Packaging:** 25 kg bags.
13. PRODUCTS FOR THE RESTORATION OF MASONRY BUILDINGS

### Mape-Antique FC Ultrafine
Salt-resistant, ultra fine-grained lime and ECO-POZZOLAN cement-free, breathable skimming mortar for a smooth finish on render.

**TECHNICAL DATA:**
- Maximum size of aggregate: < 100 µm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE FC ULTRAFINE with 30-32 parts of water (6-6.4 l of water for each 20 kg bag of product).
- Workability time of fresh mortar: approx. 60 min.
- Maximum applicable thickness per layer: 1 mm.
- Classification: EN 998-1 - GP type mortar, category CS II.
- EMICODE: EC1 Plus - very low emission.
- Storage: 12 months.
- Application: flat metal trowel.
- Consumption: approx. 1.3 kg/m² (per mm of thickness).
- Packaging: 20 kg bags.

### Poromap Finitura
Cement-free, light-coloured fine mortar for finishing de-humidifying renders applied on stone, brick and tuff masonry.

**TECHNICAL DATA:**
- Maximum diameter of aggregate: 300 µm.
- Mixing ratio: 100 parts of POROMAP FINITURA with 24-26 parts of water.
- Workability time of mortar: approx. 60 min.
- Maximum applicable thickness per layer: 2 mm.
- Classification: EN 998-1 - type GP mortar, category CS IV.
- Storage: 12 months.
- Application: smooth metal trowel.
- Consumption: 1.4 kg/m² (per mm of thickness).
- Packaging: 25 kg bags.

### Mape-Antique Allettamento
Salt-resistant masonry mortar, made from natural hydraulic lime and ECO-POZZOLAN, cement-free, for installation layers and pointing on “natural finish” masonry.

**TECHNICAL DATA:**
- Maximum size of aggregate: 1.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE ALLETTAMENTO with 18-20 parts of water (4.5-5 l of water for each 25 kg bag of product).
- Porosity of the mortar while still fresh: 6%.
- Coefficient of permeability to water vapour: µ 15/35.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 5 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: EN 998-2 - G type mortar, class M 5.
- Storage: 12 months.
- Colour: available in 7 colours.
- Application: gauging trowel.
- Consumption: 16.5 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

### Mape-Antique Strutturale NHL
High-performance breathable mortar for render and masonry work made from natural hydraulic lime and ECO-POZZOLAN, cement-free, particularly suitable for making “reinforced” and installation mortar.

**TECHNICAL DATA:**
- Maximum diameter of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPE-ANTIQUE STRUTTURALE NHL with 16-17 parts of water (4.25 l of water for each 25 kg bag of product).
- Porosity of the mortar while still fresh: 7%.
- Coefficient of permeability to water vapour: 60 µ.
- Workability time of fresh mortar: approx. 60 minutes.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 40 mm.
- Classification:
  - EN 998-1 - type GP mortar, category CS IV;
  - EN 998-2 - type G mortar, class M 15.
- Storage: 12 months.
- Application: continuous-mixing rendering machine or gauging trowel.
- Consumption: approx. 17 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.
13.10 Waterproofing and protecting construction features

**MapeWall Muratura Fine**
High strength, breathable, natural hydraulic lime-based masonry mortar with very low emission of VOC for general building work, reinforced masonry and patching and plumbing walls.

**TECHNICAL DATA:**
- Maximum size of aggregate (EN 1015-1) (mm): 1.5 mm.
- Mixing ratio: 100 parts of MAPEWALL MURATURA FINE with 15-18 parts of water (4.0-4.5 litres of water per 25 kg bag).
- Coefficient of permeability to water vapour: 15/35 µ.
- Workability time of wet mortar (EN 1015-9): approx. 60 mins.
- Minimum applicable thickness (mm): 5 mm.
- Maximum applicable thickness (mm): 30 mm.
- Classification: EN 998-2 - G type mortar, class M10.
- Storage: 12 months.
- Colour: available in 7 colours.
- Application: gauging trowel.
- Consumption: 1.65 kg/dm³ (of cavity to be filled).
- Packaging: 25 kg bags.

**MapeWall Muratura Grosso**
High strength, breathable, natural hydraulic lime-based masonry mortar with very low emission of VOC for general building and "reinforced" masonry work and patching and plumbing walls.

**TECHNICAL DATA:**
- Maximum size of aggregate: 3 mm.
- Mixing ratio: 100 parts of MAPEWALL MURATURA GROSSO with 15.5-17.5 parts of water (3.9-4.4 litres of water per 25 kg bag of product).
- Water vapour permeability coefficient: 15/35 µ.
- Workability time of fresh mortar: approx. 60 mins.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 40 mm.
- Classification: EN 998-2 - G type mortar, class M 5.
- Storage: 12 months.
- Application: trowel.
- Consumption: 1.70 kg/dm³ (of cavities to be filled).
- Packaging: 25 kg bags.

**MapeWall Render & Strengthen**
High strength natural hydraulic lime-based breathable rendering and masonry mortar with very low emission of VOC for making structural render, "reinforced" structural render and installation mortar.

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm
- Mixing ratio: 100 parts of MAPEWALL RENDER & STRENGTHEN with 16-18 parts of water (4.0-5.0 litres of water per 25 kg bag of product).
- Porosity of fresh mortar: 16%.
- Water vapour permeability coefficient: 20 µ.
- Workability time of fresh mortar: approx. 60 mins.
- Minimum applicable thickness: 10 mm.
- Maximum applicable thickness per layer: 30 mm.
- Classification: – EN 998-1 - type GP mortar, category CS IV; – EN 998-2 - type G mortar, class M15.
- Storage: 12 months.
- Colour: hazel, beige and grey.
- Application: by trowel or with a continuous-mixing rendering machine.
- Consumption: approx. 16 kg/m² (per cm of thickness).
- Packaging: 25 kg bags.

**Mape-Antique Ecolastic**
Two-component, elastic, salt-resistant, cement-free, lime and ECO-POZZOLAN based coating for waterproofing and protecting construction features, including in listed buildings.

**TECHNICAL DATA:**
- Consistency: plastic.
- Workability time of mix: approx. 1 hour (at +20°C).
- Application temperature: +5°C to +40°C.
- Classification:
  - EN 14491: “Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives” according to principles CM, O1 and P;
  - EN 14184 - Specifications for external renders and internal plasters based on organic binders”;
  - EN 1504-2 - Products and systems for the protection of concrete surfaces according to principles PI, MC and IR.
- Storage: 12 months component A, 24 months component B.
- Application: brush, roller, spreader or rendering machine with a skin-coat lance.
- Consumption:
  - by roller: 1.65 kg/m² per mm of thickness;
  - by spray: 2.2 kg/m² per mm of thickness.
- Packaging: 15 kg kit:
  - component A: 10 kg bags;
  - component B: 5 kg tanks.
REPAIRING, CONSOLIDATING AND STRENGTHENING WOODEN STRUCTURES
Mapewood Gel 120
Gel epoxy adhesive for restoring wooden structural elements.

TECHNICAL DATA:
Workability time: 40'.
Setting time: 50'.
Final hardening time: 7 days.
Storage: 24 months.
Application: pouring or injection.
Consumption: 1.01 kg/dm³ (of cavities to be filled).
Packaging: 2.5 kg units (comp. A = 2 kg and comp. B = 0.5 kg).

Mapewood Paste 140
Thixotropic epoxy adhesive for restoring wooden structural elements.

TECHNICAL DATA:
Workability time: 1 hour.
Setting time: 4-5 hours.
Final hardening time: 7 days.
Storage: 24 months.
Application: metal trowel.
Consumption: 1.59 kg/dm³ (of cavities to be filled).
Packaging: 3 kg units (comp. A = 2 kg and comp. B = 1 kg).

Mapewood Primer 100
Fluid epoxy impregnator in water dispersion for consolidating and priming wooden structures.

TECHNICAL DATA:
Workability time: 30-40 minutes.
Final hardening time: 12-24 hours.
Storage: 24 months.
Application: roller, brush or pipe cleaner.
Consumption: approx. 150 g/m².
Packaging: 1 kg units (comp. A = 0.5 kg and comp. B = 0.5 kg).
ADHESIVES AND SMOOTHING COMPOUNDS FOR CELLULAR CONCRETE BLOCKS
15. ADHESIVES AND SMOOTHING COMPOUNDS FOR CELLULAR CONCRETE BLOCKS

**Porocol**
Cementitious adhesive mortar for expanded block masonry.

**Porocol FF**
One-component, fine-grained, white cementitious mortar for laying cellular-concrete blocks and for smoothing over the surface in layers of up to 10 mm thick.

Fire resistance class according to EN 1364-1 EI 240 - E 120.

**TECHNICAL DATA:**
- Maximum diameter of aggregate: 1 mm.
- Mixing ratio: 100 parts of POROCOL with 23-25 parts of water.
- Pot life of mix: approximately 2-3 hours.
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 1.5 cm per layer.
- Classification:
  - EN 998-1 - type GP mortar, category CS III;
  - EN 998-2 - type T mortar, class M5.
- Storage: 12 months.
- Application: notched or smooth trowel.
- Consumption:
  - as adhesive for flat block walls: 5-7 kg/m²;
  - as skimming layer for flat block walls: 1.4 kg/m² per mm of thickness.
- Packaging: 25 kg bags.
PRODUCTS FOR THE
RESTORATION OF CONCRETE
16. PRODUCTS FOR THE RESTORATION OF CONCRETE

16.1 Protection of steel reinforcement rods

**Mapefer**
Two-component, anti-corrosion cementitious mortar for steel reinforcement rods.

TECHNICAL DATA:
- Maximum dimension of aggregate: 0.5 mm.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 2 mm.
- Waiting time between each coat: approximately 2 hours.
- Waiting time before applying mortar: 6-24 hours.
- Classification: EN 1504-7.
- Storage: 12 months.
- Application: brush in two coats.
- Consumption: 120 g/m for 8 mm diameter rebar (2 mm of product applied).
- Packaging: 2 kg kits:
  - 1.5 kg sachets (comp. A);
  - 0.5 kg bottles (comp. B).

**Mapefer 1K**
One-component, anti-corrosion cementitious mortar for steel reinforcement rods.

TECHNICAL DATA:
- Maximum dimension of aggregate: 0.5 mm.
- Mixing ratio: 100 parts of MAPEFER 1K with 20-22 parts of water.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 2 mm.
- Waiting time between each coat: approximately 2 hours.
- Waiting time before applying mortar: 6-24 hours.
- Classification: EN 1504-7.
- Storage: 24 months.
- Application: brush in two coats.
- Consumption: 100 g/m for 8 mm diameter rebar (2 mm of product applied).
- Packaging: boxes of 4x5 kg sachets.

**Mapeshield E 25**
Adhesive zinc plates applied directly on the surface of structures for galvanic cathodic protection against the corrosion of steel reinforcement rods.

TECHNICAL DATA:
- Thickness of plate: 0.25 mm.
- Height: 25 cm.
- Weight: 3.15 kg/m² ± 5%.
- Storage: 12 months.
- Application: external surfaces of concrete.
- Consumption: according to the density of steel reinforcement.
- Packaging: wooden boxes with 1 25 m x 25 cm wide rolls.

**Mapeshield I**
Pure zinc anodes coated with a special conductive paste, for galvanic cathodic protection against corrosion of steel reinforcement in new structures and in structures requiring repair.

TECHNICAL DATA:
- Mapeshield I 10
  - External surface: 100 x 50 mm ± 10%
  - Height: 12 mm ± 10%
  - Weight: 230 g ± 10%
  - Storage: 12 months.
  - Application: directly on steel reinforcement.
  - Consumption: according to the density of steel reinforcement.
  - Packaging: boxes of 24 pieces.
- Mapeshield I 30
  - External surface: 300 x 50 mm ± 5%
  - Height: 10 mm ± 10%
  - Weight: 450 g ± 10%
  - Storage: 12 months.
  - Application: directly on steel reinforcement.
  - Consumption: according to the density of steel reinforcement.
  - Packaging: boxes of 12 pieces.
16.2 Repairs to concrete with compensated-shrinkage mortar and binders

| Gravel 0-8 | TECHNICAL DATA:  
| Size of aggregate: assorted grain size from 0 to 8 mm.  
| Application: added as an aggregate.  
| Packaging: 20 kg bags. |

| Gravel 0-15 | TECHNICAL DATA:  
| Size of aggregate: assorted grain size from 0 to 15 mm.  
| Application: added as an aggregate.  
| Packaging: 25 kg bags. |

| Gravel 3-5 | TECHNICAL DATA:  
| Size of aggregate: assorted grain size from 3 to 5 mm.  
| Application: added as an aggregate.  
| Packaging: 25 kg bags. |

| Gravel 6-10 | TECHNICAL DATA:  
| Size of aggregate: assorted grain size from 6 to 10 mm.  
| Application: added as an aggregate.  
| Packaging: 25 kg bags. |
### Mapecure SRA
Curing admixture for cementitious mortar and concrete to reduce hydraulic shrinkage and the formation of micro-cracks.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Storage:** 12 months.
- **Consumption:**
  - mortar: 0.25% by weight of pre-blended mix;
  - concrete and beton: 5-8 l/m³.
- **Packaging:** 20 kg tanks.

### Mapefill MF 610
Expansive mortar for precision anchoring in thick layers.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** ≤ 10 mm.
- **Mixing ratio:** 100 parts of MAPEFILL MF 610 with 9.5-10.5 parts of water and 0.16-0.32% of MAPECURE SRA.
- **Pot life of mix:** approx. 2 hours (at +20°C).
- **Minimum applicable thickness:** 5 cm.
- **Maximum applicable thickness:** 10 cm.
- **Classification:**
  - EN 1504-3 - class R4 structural mortar;
  - EN 1504-6.
- **Storage:** 12 months.
- **Application:** pouring.
- **Consumption:** approx. 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

### Mapegrout 430
Fine-grained, fibre-reinforced, normal-setting thixotropic mortar for repairing concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** ≤ 10 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT 430 with 17.5-18.5 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 5 mm.
- **Maximum applicable thickness:** 3.5 cm per layer.
- **Classification:** EN 1504-3 - class R3 structural mortar.
- **Storage:** 12 months.
- **Application:** trowel, gauging trowel or rendering machine, including the continuous-mixing type.
- **Consumption:** 17 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

### Mapegrout Anchor & Repair
Fibre-reinforced, compensated-shrinkage, mortar for repairing concrete and anchoring metal structures.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT ANCHOR & REPAIR with 13-14.5 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approx. 1 h.
- **Minimum thickness:** 1 cm.
- **Maximum thickness:** approx. 5 cm.
- **Classification:** EN 1504-3 3 (R4 class structural mortar), EN 1504-6.
- **Storage:** 12 months.
- **Colour:** grey.
- **Application:** pouring into formworks.
- **Consumption:** approx. 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
**Mapecgrout Betontech HPC**
Free-flowing, shrinkage compensated cementitious grout with added polymer fibre reinforcement with a work-hardening effect for restoring concrete requiring a high level of ductility.

**TECHNICAL DATA:**
- Maximum size of aggregate: 6 mm.
- Mixing ratio: 100 parts of MAPEGROUT BETONTECH HPC with 11.5-12.5 parts of water and 0.25% of MAPECURE SRA.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 3 cm.
- Maximum applicable thickness: 30 cm.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: pouring into formwork.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

**Mapecgrout Betontech HPC10**
Rheoplastic cementitious mortar with added structural fibre reinforcement with a work-hardening effect for restoring concrete requiring a high level of ductility.

**TECHNICAL DATA:**
- Maximum size of aggregate: 10 mm.
- Mixing ratio: 100 parts of MAPEGROUT BETONTECH HPC10 with 9.5-10.0 parts of water.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 30 cm.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: pouring into formwork.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

**Mapecgrout BM**
Two-component cementitious mortar with a low modulus of elasticity for repairing concrete.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPEGROUT BM comp. A with 18.8 parts of MAPEGROUT BM comp. B.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 3.5 cm per layer.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months (comp. A); 24 months (comp. B).
- Application: trowel, gauging trowel or rendering machine.
- Consumption: approximately 21 kg/m² per cm of thickness.
- Packaging: 29.7 kg kits:
  - 25 kg vacuum-packed polyethylene bags (comp. A);
  - 4.7 kg tanks (comp. B).

**Mapecgrout Easy Repair**
Normal-setting thixotropic mortar for repairing deteriorated concrete.

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 part of MAPEGROUT EASY REPAIR with 16.0-17.0 parts of water, (4.0-4.25 l of water every 25 kg bag of product) and 0.25% of MAPECURE SRA (1 0.25 kg bottle every 4 bags of MAPEGROUT EASY REPAIR).
- Pot life of mix: approx. 1 h (at +20°C).
- Minimum thickness: 1 cm.
- Maximum thickness: 5 cm.
- Classification: EN 1504-3 as R4 class structural mortar.
- Storage: 12 months.
- Application: trowel, gauging trowel or by spray with rendering machine.
- Consumption: approx. 18.5 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags.
### TECHNICAL DATA:

**Mapegrout Fast-Set**
- Fibre-reinforced, quick setting and hardening, compensated-shrinkage mortar for repairing concrete.
- Maximum size of aggregate: 1 mm.
- Mixing ratio: 100 parts of MAPEGROUT FAST-SET with 15-16 parts of water.
- Pot life of mix: approximately 10 minutes (at +20°C).
- Minimum applicable thickness: 5 mm.
- Maximum applicable thickness: 2-2.5 cm per layer.
- Classification: EN 1504-3 - class R3 structural mortar.
- Storage: 12 months.
- Application: trowel or gauging trowel.
- Consumption: 18 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags.

### TECHNICAL DATA:

**Mapegrout FMR**
- Two-component, shrinkage-compensated, sulphate-resistant, thixotropic mortar fibre-reinforced with flexible, alloy metal fibres, particularly suitable for repairing concrete structures where higher ductility is required.
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPEGROUT FMR with 17-18 parts of water.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 5 cm per layer.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: gauging trowel, trowel or rendering machine.
- Consumption: 19 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags.

### TECHNICAL DATA:

**Mapegrout FMR-PP**
- Shrinkage-compensated, sulphate-resistant thixotropic mortar with work-hardening behaviour reinforced with structural polymer fibres, particularly suitable for repairing concrete structures where high ductility is required.
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPEGROUT FMR-PP with 16-18 parts of water.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 5 cm per layer.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: spreader, flat trowel or rendering machine.
- Consumption: 18 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags.

### TECHNICAL DATA:

**Mapegrout GF BETONCINO B1**
- Free-flowing, compensated-shrinkage cementitious mortar reinforced with inorganic fibres for repairing concrete structures where higher ductility is required.
- Maximum size of aggregate: ≤ 10 mm.
- Mixing ratio: 100 parts of MAPEGROUT GF BETONCINO B1 with 10.5-12 parts of water and 0.16-0.32% of MAPECURE SRA.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 5 cm.
- Maximum applicable thickness: 10 cm.
- Classification: EN 1504-3 - class R4 structural mortar.
- Storage: 12 months.
- Application: pouring into formwork.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.
### Mapegrout Hi-Flow
Fibre-reinforced, controlled-shrinkage mortar for repairing concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT HI-FLOW with 13-14 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approximately 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapegrout Hi-Flow B2
Shrinkage-compensated, free-flowing, fibre-reinforced cementitious mortar for repairs to concrete structures.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** ≤ 10 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT HI-FLOW B2 with 10-11 parts of water and 0.16-0.32% of MAPECURE SRA.
- **Pot life of mix:** approx. 1 hour (at +20°C).
- **Minimum applicable thickness:** 5 cm.
- **Maximum applicable thickness:** 10 cm.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approx. 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

### Mapegrout Hi-Flow GF
Hi-flow, shrinkage-compensated cementitious mortar reinforced with inorganic fibres, for repairing concrete structures where higher ductility is required.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT HI-FLOW GF with 14-16 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approximately 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapegrout Hi-Flow TI 20
Flowable shrinkage-compensated, fibre-reinforced, high-ductility cementitious mortar, with stiff steel fibres for repairing concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT HI-FLOW TI 20 with 14-16 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approximately 1 hour (at 20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 2 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** pouring into formwork.
- **Consumption:** approximately 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
16. PRODUCTS FOR THE RESTORATION OF CONCRETE

**Mapegrout LM2K**
Two-component, thixotropic, fibre-reinforced, cementitious mortar with a low modulus of elasticity and added organic corrosion inhibitor for repairing concrete, applied in a single layer at a thickness of 3 to 20 mm.

**Technical Data:**
- **Maximum Dimension of Aggregate:** 1.6 mm.
- **Mixing Ratio:** 100 parts of MAPEGROUT LM2K comp. A with 21 parts of MAPEGROUT LM2K comp. B.
- **Pot Life of Mix:** Approximately 1 hour (at +20°C).
- **Minimum Applicable Thickness:** 3 mm.
- **Maximum Applicable Thickness:** 2 cm per layer.
- **Classification:** EN 1504-3 - class R3 structural mortar.
- **Storage:** 12 months.
- **Application:** Pouring into formwork.
- **Consumption:** Approximately 21 kg/m² per cm of thickness.
- **Packaging:** 30.25 kg kits:
  - 25 kg vacuum-packed polyethylene bags (comp. A);
  - 5.25 kg tanks (comp. B).

**Mapegrout SV**
Quick-setting and hardening, compensated-shrinkage high-flow mortar for repairing concrete and fixing drains, manholes and urban architectural fittings in place.

**Technical Data:**
- **Maximum Dimension of Aggregate:** 2.5 mm.
- **Mixing Ratio:** 100 parts of MAPEGROUT SV with 12-13 parts of water.
- **Pot Life of Mix:** 15 minutes (at +20°C).
- **Minimum Applicable Thickness:** 1 cm.
- **Maximum Applicable Thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** Pouring into formwork.
- **Consumption:** 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

**Mapegrout SV Fiber**
Hi-flow, compensated-shrinkage, quick-setting and hardening, high-ductility cementitious mortar applied at temperatures down to -5°C, used in combination with stiff steel fibres for repairing concrete.

**Technical Data:**
- **Maximum Dimension of Aggregate:** 2.5 mm.
- **Mixing Ratio:** 100 parts of MAPEGROUT SV FIBER with 13.5-14.5 parts of water.
- **Pot Life of Mix:** Approximately 20 minutes (at +20°C).
- **Minimum Applicable Thickness:** 1 cm.
- **Maximum Applicable Thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** Pouring into formwork.
- **Consumption:** Approximately 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

**Mapegrout SV T**
Quick-setting and hardening, compensated-shrinkage thixotropic mortar for repairing concrete and fixing drains, manholes and urban fittings in place.

**Technical Data:**
- **Maximum Dimension of Aggregate:** 2.5 mm.
- **Mixing Ratio:** 100 parts of MAPEGROUT SV T with 12.5-13.5 parts of water.
- **Pot Life of Mix:** 10 minutes (at +20°C).
- **Minimum Applicable Thickness:** 1 cm.
- **Maximum Applicable Thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Colour:** Black.
- **Application:** Gauging trowel or trowel.
- **Consumption:** 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
<table>
<thead>
<tr>
<th><strong>Mapetard ES</strong></th>
<th>Set-retarding admixture for rapid-setting cementitious mortar.</th>
</tr>
</thead>
</table>

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Storage:** 12 months.
- **Consumption:** one 0.25 kg bottle per 25 kg bag of PLANITOP SMOOTH & REPAIR or PLANITOP SMOOTH & REPAIR R4.
- **Packaging:** boxes of 25 0.25 kg canisters.

<table>
<thead>
<tr>
<th><strong>Mapegrouf T40</strong></th>
<th>Medium-strength (40 MPa), compensated-shrinkage fibre-reinforced thixotropic mortar for repairing concrete.</th>
</tr>
</thead>
</table>

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT T40 with 15.5-16.5 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 3-3.5 cm per layer.
- **Classification:** EN 1504-3 - class R3 structural mortar.
- **Storage:** 12 months.
- **Application:** gauging trowel, trowel or rendering machine.
- **Consumption:** approximately 18.5 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

<table>
<thead>
<tr>
<th><strong>Mapegrouf T60</strong></th>
<th>Fibre-reinforced, sulphate-resistant thixotropic mortar for repairing concrete.</th>
</tr>
</thead>
</table>

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT T60 with 16.5-17.5 parts of water and 0.25% of MAPECURE SRA.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer on vertical surfaces and 2 cm per layer on ceilings.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** gauging trowel, trowel or rendering machine.
- **Consumption:** 18.5 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

<table>
<thead>
<tr>
<th><strong>Mapegrouf Thixotropic</strong></th>
<th>Fibre-reinforced, compensated-shrinkage mortar for repairing concrete.</th>
</tr>
</thead>
</table>

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEGROUT THIXOTROPIC with 15.5-16.5 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 - class R4 structural mortar.
- **Storage:** 12 months.
- **Application:** gauging trowel, trowel or rendering machine.
- **Consumption:** 19 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
16. PRODUCTS FOR THE RESTORATION OF CONCRETE

**Planitop 400**
Quick-setting, controlled-shrinkage thixotropic mortar for repairing the surface of concrete, may be applied in various thicknesses from 1 to 40 mm in a single layer.

**Planitop Smooth & Repair**
R2-class, rapid-setting shrinkage-compensated, thixotropic, fibre-reinforced, cementitious mortar for repairing and smoothing concrete, to be applied in a single layer from 3 mm to 40 mm.

**Planitop Smooth & Repair R4**
Rapid-setting shrinkage-compensated thixotropic fibre-reinforced class R4 structural cementitious mortar applied in a single layer from 3 to 40 mm thick for repairing and smoothing concrete.

**Stabilcem**
Expansive, super-fluid cementitious binder for mixing injection and anchoring slurry, mortar and concrete.

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**TECHNICAL DATA:**
- **Planitop 400**
  - Maximum dimension of aggregate: 0.5 mm.
  - Mixing ratio: 100 parts of PLANITOP 400 with 15-16 parts of water.
  - Pot life of mix: approximately 15 minutes at +10°C to +25°C.
  - Minimum applicable thickness: 3 mm.
  - Classification: EN 1504-3 - class R3 structural mortar.
  - Storage: 12 months.
  - Application: trowel or gauging trowel.
  - Consumption: approx. 18.5 kg/m² per cm of thickness.
  - Packaging: 25 kg bags; 20 kg boxes (4x5 kg packets).

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**TECHNICAL DATA:**
- **Planitop Smooth & Repair**
  - Maximum dimension of aggregate: 0.4 mm.
  - Mixing ratio: 100 parts of PLANITOP SMOOTH & REPAIR with 17-19 parts of water.
  - Pot life of mix: approx. 15 mins. at a temperature between +10°C and +25°C. The pot life of the mix may be extended by further 15-20 mins. by adding the set retarding admixture MAPETARD ES (one 0.25 kg bottle per 25 kg bag of PLANITOP SMOOTH & REPAIR).
  - Minimum applicable thickness: 3 mm.
  - Maximum applicable thickness: 4 cm per layer.
  - Classification: – EN 1504-3 - class R2 non-structural mortar. – EN 1504-2 - coating (C) principles MC and IR.
  - EMICODE: EC1 Plus - very low emission.
  - Storage: 12 months.
  - Application: gauging trowel or trowel.
  - Consumption: approximately 15 kg/m² per cm of thickness.
  - Packaging: 25 kg vacuum-packed polyethylene bags and 20 kg boxes (4x5 kg packets).

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**TECHNICAL DATA:**
- **Planitop Smooth & Repair R4**
  - Maximum size of aggregate: 0.4 mm.
  - Mixing ratio: 100 parts of PLANITOP SMOOTH & REPAIR R4 with 16.5-17.5 parts of water.
  - Pot life of mix: approx. 15 mins. at +10°C to +25°C. The pot life of the mix may be extended by further 15-20 mins. by adding the set retarding admixture MAPETARD ES (one 0.25 kg bottle per 25 kg bag of PLANITOP SMOOTH & REPAIR R4).
  - Minimum applicable thickness: 3 mm.
  - Maximum applicable thickness: 4 cm per layer.
  - Classification: EN 1504-3 - class R4 structural mortar; EN 1504-2 - coating (C) principles MC and IR.
  - EMICODE: EC1 Plus - very low emission.
  - Storage: 12 months.
  - Application: gauging trowel or trowel.
  - Consumption: approx. 17 kg/m² per cm of thickness.
  - Packaging: 25 kg vacuum-packed polyethylene bags.

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**TECHNICAL DATA:**
- **Stabilcem**
  - Mixing ratio: – injection slurry: 100 parts of STABILCEM with 32 parts of water; – mortar, beton and concrete: according to the consistency and performance required from the aggregate.
  - Storage: 12 months.
  - Application: injection and pouring into formwork.
  - Consumption: – injection slurry: 1.6 kg/l of cavities to be filled; – mortar and beton: 350-550 kg/m³; – concrete: 400 kg/m³.
  - Packaging: 20 kg vacuum-packed polyethylene bags.
WATER-REPELLENT PRODUCTS FOR THE PROTECTION OF CONCRETE
### Planiseal WR 40
Ready-mixed 40% silane-based, hydrophobising, migrating liquid in water emulsion applied to the surface of reinforced concrete structures.

**TECHNICAL DATA:**
- **Dilution rate:** ready-mix.
- **Colour:** white.
- **Consistency:** liquid.
- **Dry solid content:** 40%.
- **Penetration depth:** class I (< 10 mm).
- **Classification:** EN 1504-2 - coating (C) principles PI, MC and IR.
- **Storage:** 12 months.
- **Application:** low-pressure airless spray or roller.
- **Consumption:** approx. 0.1-0.2 kg/m² per coat depending on the porosity of the substrate.
- **Packaging:** 5 kg tanks.

### Planiseal WR 85 Gel
Ready-mixed, hydrophobising, protective, migrating, silane-based, thixotropic gel applied on the surface of reinforced concrete structures.

**TECHNICAL DATA:**
- **Dilution rate:** ready to use.
- **Colour:** transparent.
- **Consistency:** gel.
- **Dry solid content:** 98%.
- **Penetration depth:** Class II > 10 mm.
- **Classification:** EN 1504-2 according to PI, MC and IR principles.
- **Storage:** 12 months.
- **Application:** high-pressure airless spray or roller.
- **Consumption:** 0.3-0.5 kg/m².
- **Packaging:** 5 kg drums.

### Planiseal WR 100
Ready-mixed pure silane-based, hydrophobising, protective, migrating liquid applied to the surface of reinforced concrete structures

**TECHNICAL DATA:**
- **Dilution rate:** ready-mix.
- **Colour:** transparent.
- **Consistency:** liquid.
- **Dry solid content:** 98%.
- **Penetration depth:** class I (< 10 mm).
- **Classification:** EN 1504-2 - coating (C) principles PI, MC and IR.
- **Storage:** 24 months.
- **Application:** low-pressure airless spray or roller.
- **Consumption:** approx. 0.1-0.2 kg/m² per coat depending on the porosity of the substrate.
- **Packaging:** 5 kg tanks.
RENDERING AND INSTALLATION MORTARS
### Intomap Allettamento

Hydrated lime and cement-based masonry mortar for pointing and laying bricks and concrete blocks.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 1.4 mm.
- Mixing ratio: 100 parts of INTOMAP ALLETTAMENTO with 17-19 parts of water.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 3 cm.
- Classification: EN 998-2 - type G mortar, class M5.
- Storage: 12 months.
- Application: trowel.
- Consumption: approximately 18 kg/m² per cm of thickness.
- Packaging: 25 kg bags.

### Intomap Allettamento H

Hydrophobic hydrated lime and cement-based masonry mortar for installing and pointing bricks and concrete blocks.

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of INTOMAP ALLETTAMENTO H with 17-18.5 parts of water.
- Pot life of mix: approx. 1 h (at +20°C).
- Minimum thickness: 1 cm.
- Maximum thickness: 3 cm.
- Classification: EN 998-1 - G type mortar M10 class.
- Storage: 12 months.
- Application: trowel.
- Consumption: approx. 17.5 kg/m² per cm of thickness.
- Packaging: 25 kg bag.

### Intomap Maxi Fibro

Coarse-textured, fibre-reinforced lime and hydraulic binder-based base render, for internal and external use.

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of INTOMAP MAXI FIBRO with 18-20 parts of water.
- Pot life of mix: approx. 1 h (at +20°C).
- Minimum thickness: 1 cm.
- Maximum thickness: 4 cm (localised).
- Classification: EN 998-1 - GP type mortar CS II category.
- Storage: 12 months.
- Application: trowel or continuous feed rendering machine.
- Consumption: approx. 14.5 kg/m² per cm of thickness.
- Packaging: 25 kg bag.

### Intomap R2

Fibre-reinforced, base render made from lime and hydraulic binder for internal and external use.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 1.4 mm.
- Mixing ratio: 100 parts of INTOMAP R2 FIBRO with 19-21 parts of water.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 3 cm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- Storage: 12 months.
- Application: continuous-mixing rendering machine or gauging trowel.
- Consumption: 14 kg/m² per cm of thickness.
- Packaging: 25 kg bags.
**Intomap R2 Fibro**
Base render made from lime and hydraulic binder for internal and external use.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 1.4 mm.
- **Mixing ratio:** 100 parts of INTOMAP R2 with 19-21 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 cm.
- **Maximum applicable thickness:** 3 cm.
- **Classification:** EN 998-1 - type GP mortar, category CS II.
- **Storage:** 12 months.
- **Application:** continuous-mixing rendering machine or gauging trowel.
- **Consumption:** 14 kg/m² per cm of thickness.
- **Packaging:** 25 kg bags.
SMOOTHING AND PROTECTIVE PRODUCTS FOR CONCRETE AND RENDER SURFACES
### Mapefinish
Two-component cementitious mortar for finishing concrete.

**Technical Data:**
- **Maximum dimension of aggregate:** 0.4 mm.
- **Mixing ratio:** 4 parts of MAPEFINISH comp. A with 1 part of MAPEFINISH comp. B.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 2-3 mm per layer.
- **Classification:**
  - EN 1504-3 - class R2 non-structural mortar.
  - EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months (comp. A); 24 months (comp. B).
- **Application:** trowel.
- **Consumption:** 1.8 kg/m² per mm of thickness.
- **Packaging:**
  - 30 kg kits:
    - 24 kg bags (comp. A);
    - 6 kg tanks (comp. B).

### Mapelastic Guard
Two-component, elastic cementitious mortar for protecting large concrete structures subjected to high stress.

**Technical Data:**
- **Mixing ratio:** 3 parts of MAPELASTIC GUARD comp. A with 1 part of MAPELASTIC GUARD comp. B.
- **Pot life of mix:** approximately 1 h (at +20°C).
- **Minimum applicable thickness:** 2 mm per layer.
- **Classification:** EN 1504-2 - coating (C) principles PI, MC and IR.
- **Storage:** 12 months (comp. A); 24 months (comp. B).
- **Application:** trowel or by spray with a rendering machine.
- **Consumption:**
  - Approximately 1.7 kg/m² per mm of thickness (by trowel).
  - Approximately 2.2 kg/m² per mm of thickness (by spray).
- **Packaging:**
  - 32 kg kits:
    - 24 kg bags (comp. A);
    - 8 kg tanks (comp. B).

### Monofinish
One-component, normal-setting cementitious mortar for smoothing concrete and cementitious render.

**Technical Data:**
- **Maximum dimension of aggregate:** 0.4 mm.
- **Mixing ratio:** 100 parts of MONOFINISH with 18-19 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 2-3 mm per layer.
- **Classification:**
  - EN 1504-3 - class R2 non-structural mortar.
  - EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months.
- **Application:** trowel.
- **Consumption:** 1.4 kg/m² per mm of thickness.
- **Packaging:** 22 kg bags.

### Nivoplan
Smoothing mortar for indoor and outdoor walls and ceilings.

**Technical Data:**
- **Mixing ratio:** 100 parts of NIVOPLAN with 25 parts of water.
- **Pot life of mix:** 2-3 hours (at +23°C).
- **Minimum applicable thickness:** 2 mm.
- **Maximum applicable thickness:** 3 cm per layer.
- **Classification:** EN 998-1 - type GP mortar, category CS IV.
- **Storage:** 12 months.
- **Colour:** grey and white.
- **Application:** trowel or gauging trowel.
- **Consumption:** 14 kg/m² per cm of thickness.
- **Packaging:** 25 kg bags.
**Planitop 100**
Quick-setting, light-grey coloured fine mortar for repairing and smoothing concrete and render.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 0.2 mm.
- Mixing ratio: 100 parts of PLANITOP 100 with 26-27 parts of water.
- Pot life of mix: 20-30 minutes (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm per layer.
- Classification: EN 1504-2 - coating (C) principles MC and IR.
- Storage: 12 months.
- Application: trowel.
- Consumption: 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

**Planitop 200**
Water-repellent cementitious skimming mortar with a fine-textured, natural finish for concrete and plastic, glass and porcelain coverings.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 0.4 mm.
- Mixing ratio: 100 parts of PLANITOP 200 with 20-23 parts of water.
- Pot life of mix: approximately 1 hour and 30 minutes (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm per layer (6 mm in 2 layers with MAPENET 150 sandwiched between).
- Classification:
  - EN 998-1 - type GP mortar, category CS IV;
  - EN 1504-2 - coating (C) principles MC and IR.
- Storage: 12 months.
- Colour: grey and white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

**Planitop 207**
Water-repellent cementitious skimming mortar with a medium-textured, natural finish for concrete and plastic, glass and porcelain coverings.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 0.7 mm.
- Mixing ratio: 100 parts of PLANITOP 207 with 17-19 parts of water.
- Pot life of mix: approximately 1 hour (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm per layer (6 mm in 2 layers with MAPENET 150 sandwiched between).
- Classification:
  - EN 998-1 - type GP mortar, category CS IV;
  - EN 1504-2 - coating (C) principles MC and IR.
- Storage: 12 months.
- Colour: grey and white.
- Application: trowel.
- Consumption: approximately 1.5 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

**Planitop 210**
Water-repellent, cementitious skimming mortar with a fine-textured, natural finish for concrete and plastic coatings.

**TECHNICAL DATA:**
- Maximum size of aggregate: 0.4 mm.
- Mixing ratio: 100 parts of PLANITOP 210 with 21-24 parts of water.
- Pot life of mix: approximately 1 h (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm (6 mm in 2 layers with MAPENET 150 embedded between the layers).
- Classification:
  - EN 998-1 - GP type mortar, category CS IV;
  - EN 1504-2 - coating (C) principles MC and IR.
- Storage: 12 months.
- Colours: grey and white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.
Planitop 217
Water-repellent cementitious skimming mortar with a coarse-textured, natural finish for concrete and plastic coatings.

TECHNICAL DATA:
- Maximum size of aggregate: 1 mm.
- Mixing ratio: 100 parts of PLANITOP 217 with 19-22 parts of water.
- Pot life of mix: approximately 1 h (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm.
- Classification: EN 998-1 - GP type mortar, category CS IV; EN 1504-2 - coating (C) principles MC and IR.
- Storage: 12 months.
- Colours: grey and white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

Planitop 510
Lime-cement skimming mortar with a fine-textured, natural finish for render.

TECHNICAL DATA:
- Maximum size of aggregate: 0.4 mm.
- Mixing ratio: 100 parts of PLANITOP 510 with 28-31 parts of water.
- Pot life of mix: approximately 1 h (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- Storage: 12 months.
- Colours: grey and white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

Planitop 517
Lime-cement skimming mortar with a coarse-textured, natural finish for render.

TECHNICAL DATA:
- Maximum size of aggregate: 1 mm.
- Mixing ratio: 100 parts of PLANITOP 517 with 20-22 parts of water.
- Pot life of mix: approximately 1 h (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm.
- Classification: EN 998-1 - type GP mortar, category CS III.
- Storage: 12 months.
- Colours: grey and white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.

Planitop 525
Natural-finish, white-coloured lime and cement smoothing compound for “fresh” or “hardened” internal and external render, applied in layers up to 3 mm thick.

TECHNICAL DATA:
- Maximum dimension of aggregate: 0.4 mm.
- Mixing ratio: 100 parts of PLANITOP 525 with 28-30 parts of water.
- Pot life of mix: approximately 2 hours (at +20°C).
- Minimum applicable thickness: 1 mm.
- Maximum applicable thickness: 3 mm.
- Classification: EN 998-1 - type GP mortar, category CS II.
- Storage: 12 months.
- Colour: white.
- Application: trowel.
- Consumption: approximately 1.3 kg/m² per mm of thickness.
- Packaging: 25 kg bags.
### Planitop 530
Lime-cement skimming mortar with a fine-textured, natural finish for render and concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 0.4 mm.
- **Mixing ratio:** 100 parts of PLANITOP 530 with 24-26 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 3 mm per layer.
- **Classification:**
  - EN 998-1 - type GP mortar, category CS IV;
  - EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months.
- **Colour:** grey and white.
- **Application:** trowel.
- **Consumption:** approximately 1.2 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

### Planitop 540
Water-repellent cementitious skimming mortar with a fine-textured, natural finish for render and concrete.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 0.4 mm.
- **Mixing ratio:** 100 parts of PLANITOP 540 with 24-26 parts of water.
- **Pot life of mix:** approximately 2 hours (at +20°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 3 mm per layer.
- **Classification:**
  - EN 998-1 - type GP mortar, category CS IV;
  - EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months.
- **Colour:** grey and white.
- **Application:** trowel.
- **Consumption:** approximately 1.2 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

### Planitop 560
Lime-cement skimming mortar with an ultra-fine-textured finish for render.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** < 0.1 mm.
- **Mixing ratio:** 100 parts of PLANITOP 560 with 39-43 parts of water.
- **Pot life of mix:** approximately 2 hours (at +20°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 2 mm per layer.
- **Classification:**
  - EN 998-1 - type GP mortar, category CS IV.
  - EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months.
- **Colour:** grey and white.
- **Application:** trowel.
- **Consumption:** approx. 1.1 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

### Planitop 565
Fine-grained, white-coloured lime cement skimming compound for finishing “fresh” or hardened internal and external cementitious render, applied in layers up to 1 mm thick.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** < 0.1 mm.
- **Mixing ratio:** 100 parts of PLANITOP 565 with 37-39 parts of water.
- **Pot life of mix:** approximately 2 hours (at +20°C).
- **Minimum applicable thickness:** skimming to a feather edge.
- **Maximum applicable thickness:** 1 mm.
- **Classification:** EN 998-1 - type GP mortar, category CS II.
- **Storage:** 12 months.
- **Colour:** white.
- **Application:** trowel.
- **Consumption:** approximately 1.2 kg/m² per mm of thickness.
- **Packaging:** 20 kg bags.
### Planitop 600
**RasaGesso**
Lime-gypsum skimming mortar for internal render.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** < 0.1 mm.
- **Mixing ratio:** 100 parts of PLANITOP 600 RASAGESSO with approximately 50 parts of water.
- **Pot life of mix:** approximately 1 hour (at +23°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 3 mm.
- **Classification:** EN 13279-1 (B3-20-2).
- **Storage:** 12 months.
- **Colour:** white.
- **Application:** trowel.
- **Consumption:** approximately 1 kg/m² per mm of thickness.
- **Packaging:** 15 kg bags.

### Planitop 610
**RasaGesso M**
Gypsum-based skimming compound for internal render.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** < 0.1 mm.
- **Mixing ratio:** 100 parts of PLANITOP 610 RASAGESSO M with approx. 60 parts of water.
- **Pot life of mix:** approx. 40-50 mins. (at +23°C).
- **Minimum applicable thickness:** 1 mm.
- **Maximum applicable thickness:** 5 mm.
- **Classification:** EN 13279-1 (B1-20-2).
- **Storage:** 12 months.
- **Colour:** white.
- **Application:** trowel.
- **Consumption:** approx. 1 kg/m² per mm of thickness.
- **Packaging:** 15 kg bags.

### Planitop Fast 330
Quick-setting, fibre-reinforced cementitious levelling mortar for internal and external floors and walls, applied in layers from 3 to 30 mm to even out irregularities.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 1 mm.
- **Mixing ratio:** 100 parts of PLANITOP FAST 330 with 18-20 parts of water.
- **Pot life of mix:** approximately 20 minutes (at +20°C).
- **Minimum applicable thickness:** 3 mm.
- **Maximum applicable thickness:** 3 cm per layer.
- **Classification:** – EN 998-1 - type GP mortar, category CS IV;
  – EN 1504-2 - coating (C) principles MC and IR.
- **EMICODE:** EC1 - very low emission.
- **Storage:** 12 months.
- **Application:** trowel.
- **Consumption:** 14.5 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Planitop Fine Finish
Ultra fine textured skimming mortar for concrete; recommended for exposed finish surfaces.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 0.2 mm.
- **Mixing ratio:** 100 parts of PLANITOP FINE FINISH with 40-42 parts of water.
- **Pot life of mix:** approx. 45 mins. (at +23°C).
- **Minimum applicable thickness:** skimming to a feather edge.
- **Maximum applicable thickness:** 3 mm per layer.
- **Classification:** EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** 12 months.
- **Application:** rubber or metal trowel.
- **Consumption:** approx. 1.2 kg/m² per mm of thickness.
- **Packaging:** 20 kg bags.
**Planitop Raso Max**
Smooth-textured, fibre-reinforced, waterproof, lime-cement smoothing and levelling mortar applied in layers 2 to 10 mm thick over cementious render, concrete and plastic coatings.

**Planitop Superfine**
Ultra-fine textured cementitious skimming compound applied in layers up to 1 mm thick for finishing off the surface of internal and external “fresh” or “cured” cementitious render.

**Triblock Finish**
Three-component, epoxy-cementitious mortar for smoothing damp substrates.
PRODUCTS FOR ANCHORING AND RAPID FIXING
### Lampocem
Ready-to-use, quick-setting and hardening, anti-shrinkage hydraulic binder.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** < 0.1 mm.
- **Mixing ratio:** 100 parts of LAMPOCEM with 20-21 parts of water.
- **Pot life of mix:** approximately 1 minute (at +23°C).
- **Storage:** 12 months.
- **Application:** trowel or gauging trowel.
- **Consumption:** 1.8 kg/dm³ of cavities to be filled.
- **Packaging:** 25 kg bags, boxes of 4x5 kg sachets and packages of 9x1 kg cartridges.

### Mapefill
Fluid expansive mortar for anchoring objects in place.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEFILL with 14-15 parts of water.
- **Pot life of mix:** approximately 1 hour (at +20°C).
- **Maximum applicable thickness:** 6 cm per layer.
- **Classification:** EN 1504-6.
- **Storage:** 12 months.
- **Application:** pouring.
- **Consumption:** 1.95 kg/dm³ of cavities to be filled.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.

### Mapefill MF 610
Expansive mortar for precision anchoring in thick layers.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** ≤ 10 mm.
- **Mixing ratio:** 100 parts of MAPEFILL MF 610 with 9.5-10.5 parts of water and 0.16-0.32% of MAPECURE SRA.
- **Pot life of mix:** approx. 2 hours (at +20°C).
- **Minimum applicable thickness:** 5 cm.
- **Maximum applicable thickness:** 10 cm.
- **Classification:**
  - EN 1504-3 - class R4 structural mortar;
  - EN 1504-6.
- **Storage:** 12 months.
- **Application:** pouring.
- **Consumption:** approx. 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyethylene bags and 1,000 kg big-bags.

### Mapefill R
Quick-hardening, fluid expansive mortar for quickly anchoring objects in place.

**TECHNICAL DATA:**
- **Maximum dimension of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of MAPEFILL R with 17-18 parts of water.
- **Pot life of mix:** approximately 45 minutes (at +20°C).
- **Maximum applicable thickness:** 6 cm per layer.
- **Classification:** EN 1504-6.
- **Storage:** 12 months.
- **Application:** pouring.
- **Consumption:** 1.95 kg/dm³ of cavities to be filled.
- **Packaging:** 25 kg vacuum-packed polyethylene bags.
**Mapefix Combibox VE SF Kit**

Styrene-free, hybrid vinyl ester resin-based chemical fastener for structural loads. Certified for threaded rods, rebar, C1 seismic performance. Kit made up of 12 cartridges of MAPEFIX VE SF 300 or 420 ml MAPEFIX VE SF, 24 mixers, 5 T-shirts a 1 pair of work pants.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivatives, brickwork, mixed masonry, wood and rock.
- Recommended penetration technique: drill, hammer drill, core drilling, diamond-tipped tools.
- Condition of hole for application: clean, dry, damp, wet or immersed underwater.
- Workability time at +20°C: 5 mins.
- Final hardening time at +20°C: 45 mins (dry substrate), 90 mins (wet substrate).
- Certified bar diameter: from M8 to M30, from Ø8 to Ø32.
- Certification: CE marking; ETA option 1 (anchors in tension and compressed zones); ETA option 7 (fasteners in compressive side); ETA Seismic performance C1; ETA option REBAR; fire resistance.
- Application: extrusion gun.
- Packaging: 300 ml, 420 ml.
- Storage: 12 months (300 ml) or 18 months (420 ml) at +5°C - +25°C.

**Mapefix EP 385/585**

Pure epoxy, resin-based chemical anchor for structural loads. Certified for threaded bar, construction bars, core-drilled holes and C2 seismic loads.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivatives, brickwork, mixed masonry, wood and rock.
- Recommended penetration technique: drill, hammer drill, core drilling, diamond-tipped tools.
- Condition of hole for application: clean, dry, damp, wet or immersed underwater.
- Workability time at +20°C: 30 mins.
- Final hardening time at +20°C: 10 h (dry substrate), 20 h (wet substrate).
- Certified bar diameter: from M8 to M30, from Ø8 to Ø40.
- Certification: CE marking; ETA option 1 (anchors in tension and compressed zones); ETA option 7 (fasteners in compressive side); ETA Seismic Performance C1 and C2; ETA option REBAR; ETA core drill; reaction to fire.
- Application: extrusion gun.
- Packaging: 385 ml and 585 ml.
- Storage: 24 months at +5°C - +25°C.

**Mapefix EP 470 Seismic**

Pure epoxy resin-based chemical anchor for structural loads. Certified for threaded bar, construction bars, and C2 seismic loads.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivatives, brickwork, mixed masonry, wood and rock.
- Recommended penetration technique: drill, hammer drill, core drilling, diamond-tipped tools.
- Condition of hole for application: clean, dry, damp or wet.
- Workability time at +20°C: 50 mins.
- Final hardening time at +20°C: 16 h (dry substrate).
- Certified bar diameter: from M8 to M30; from Ø8 to Ø32.
- Certification: CE marking; ETA option 1 (anchors in tension and compressed zones); ETA option 7 (fasteners in compressive side); ETA Seismic Performance C2; ETA option REBAR.
- Application: extrusion gun.
- Packaging: 470 ml.
- Storage: 24 months at +5°C - +25°C.

**Mapefix EP Mixer**

Spare static mixer for epoxy chemical anchors.

**TECHNICAL DATA:**
- Packaging: box of 12 mixers.
20. PRODUCTS FOR ANCHORING AND RAPID FIXING

**Mapefix PE + VE Mixer**
Spare static mixer for polyester and vinylester chemical anchors.

**Technical Data:**
- Suitable for the following MAPEI products: MAPEFIX PE WALL, MAPEFIX PE SF, MAPEFIX VE SF.
- Packaging: box of 12 mixers.

**Mapefix PE SF**
Styrene-free, polyester resin chemical fastener for heavy loads.

**Technical Data:**
- Suitable substrates: all full or perforated substrates.
- Recommended penetration technique: drill or hammer-drill.
- Condition of hole for application: clean, dry or damp.
- Application temperature range of substrate: +5°C - +35°C.
- Workability time at +20°C: 6’.
- Final hardening time at +20°C: 45’ (dry substrate), 90’ (wet substrate).
- Certified diameter of bars: from M8 to M24.
- Certification available: CE mark; ETA option 7 (fasteners in compressive side) ETAG 029 (anchors in masonry).
- Application: extrusion gun.
- Packaging: 300 ml, 420 ml.
- Storage: 12 months (300 ml) or 18 months (420 ml) at +5°C - +25°C.

**Mapefix PE Wall**
Styrene-free chemical anchor made from polyester for light loads certified for masonry.

**Technical Data:**
- Suitable substrates: all full and perforated masonries.
- Recommended penetration technique: drill or hammer-drill.
- Condition of substrate for application: dry, clean.
- Application temperature range of substrate: 0°/-30°C.
- Workability time at +20°C: 6’.
- Final hardening time at +20°C: 45’.
- Certified diameter of fastener: from M8 to M24.
- Certification available: CE mark; ETA option 7 (fasteners in compressive side) ETAG 029 (anchors in masonry).
- Application: extrusion gun.
- Packaging: 380 ml.
- Storage: 12 months at +5°C - +25°C.

**Mapefix Metal Sleeve**
Cylindrical, perforated metal sleeve for applying chemical anchors in hollow and loose substrates. 1 m long cylinder to be cut to size.

**Technical Data:**
- Diameter and length available:
  - Ø20 x 1000mm x 25 pcs.
  - Ø16 x 1000mm x 50 pcs.
  - Ø12 x 1000mm x 50 pcs.
- Suitable for the following MAPEI products: MAPEFIX range.
**Mapefix Plastic Sleeve**
Cylindrical perforated plastic sleeve for applying chemical anchors in hollow substrates

**TECHNICAL DATA:**
- Diameter and length available:
  - Ø 12 x 80 mm;
  - Ø 15 x 85 mm;
  - Ø 20 x 85 mm.
- Suitable for the following MAPEI products: Mapefix range.
- Packaging: bag of 10 sleeves.

**Mapefix PolyBond**
Polyester, resin-based chemical fastener for heavy loads. Certified for threaded rods in concrete.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivates, brickwork, mixed masonry.
- Colour: grey.
- Recommended penetration technique: rotary drill, hammer drill.
- Condition of hole for application: clean, dry.
- Application temperature range of substrate: from 0°C.
- Workability time at +20°C: 6 mins.
- Final hardening time: from M8 to M30, from Ø8 to Ø32.
- Certification: CE marking; ETA option 7 (fasteners in compressive side).
- Application: extrusion gun (MAPEI 310 PRO and MAPEI GUN 420 2K).
- Packaging: 300 ml e 420 ml.
- Storage: 12 months for 300 ml cartridge and 18 months for 420 ml cartridge.

**Mapefix UM-H 420**
Solvent-free, methacrylate resin-based chemical fastener for structural loads. High bond strength and high thermal resistance. Certified for threaded rods and rebar C1 and C2 seismic loads.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivates, brickwork, mixed masonry.
- Colour: grey.
- Recommended penetration technique: rotary drill, hammer drill.
- Condition of hole for application: clean, dry, damp, wet or immersed underwater.
- Workability time at +20°C: 6 mins.
- Final hardening time: from M8 to M30, from Ø8 to Ø32.
- Certification: CE marking; ETA option 7 (fasteners in compressive side).
- Application: extrusion gun (MAPEI GUN 420 2K).
- Packaging: 420 ml.
- Storage: 18 months.

**Mapefix VE SF**
Styrene-free, hybrid vinyl resin-based chemical anchor for structural loads. Certified for threaded bars, construction bars and C1 seismic loads.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivates, brickwork, mixed masonry, wood and rock.
- Recommended penetration technique: drill, hammer drill.
- Condition of hole for application: clean, dry, damp, wet or immersed underwater.
- Workability time at +20°C: 6 mins.
- Final hardening time: from M8 to M30; from Ø8 to Ø32.
- Certification: CE marking; ETA option 1 (anchors in tension and compressed zones); ETA option 7 (fasteners in compressive side); ETA Seismic performance C1; ETA option REBAR; fire resistance.
- Application: extrusion gun.
- Packaging: 300 ml e 420 ml.
- Storage: 12 months (300 ml) or 18 months (420 ml) at +°5°C to +°25°C.
**Mapefix VinyBond**
Styrene-free, hybrid vinyl ester resin-bases chemical fastener for structural loads. Certified for threaded rods in concrete and rebar in reinforced concrete.

**TECHNICAL DATA:**
- Suitable substrates: all solid and perforated substrates such as concrete and concrete derivates, brickwork, mixed masonry, wood and rock.
- Colour: grey.
- Recommended penetration technique: drill, hammer drill.
- Condition of hole for application: clean, dry, damp, wet or immersed underwater.
- Workability time at +20°C: 6 mins.
- Application temperature range of substrate: from -10°C.
- Final hardening time at +20°C: 45 mins (dry substrate), 90 mins (wet substrate).
- Certified bar diameter: from M8 to M30, from Ø8 to Ø32.
- Certification: CE marking; ETA option 1 (anchors in tension and compressed zones); ETA option 7 (fasteners in compressive side) ETA option REBAR.
- Application: extrusion gun (MAPEI 310 PRO and MAPEI GUN 420 2K).
- Packaging: 300 ml and 420 ml.
- Storage: 12 months for 300 ml cartridge and 18 months for 420 ml cartridge.

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**Mapegrout Anchor & Repair**
Fibre-reinforced, compensated-shrinkage, mortar for repairing concrete and anchoring metal structures.

**TECHNICAL DATA:**
- Maximum size of aggregate: 2.5 mm.
- Mixing ratio: 100 parts of MAPEGROUT ANCHOR & REPAIR with 13-14.5 parts of water and 0.25% of MAPECURE SRA.
- Pot life of mix: approx. 1 h.
- Minimum thickness: 1 cm.
- Maximum thickness: approx. 5 cm.
- Classification: EN 1504-3 3 (R4 class structural mortar), EN 1504-6.
- Storage: 12 months.
- Colour: grey.
- Application: pouring into formworks.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyethylene bags.

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**Planibond BA 100**
Two-component fluid epoxy resin for anchoring steel bars.

**TECHNICAL DATA:**
- Pot life of mix: 45 mins. (at +23°C).
- Classification: EN 1504-6.
- Storage: 24 months.
- Application: by pouring.
- Consumption: approx. 2 kg/dm³.
- Packaging: 3 kg kit:
  - 2.88 kg drum (comp. A);
  - 0.12 kg canister (comp. B).

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**Planigrout 300**
Three-component fluid epoxy mortar for anchorage work.

**TECHNICAL DATA:**
- Maximum dimension of aggregate: 2 mm.
- Pot life of mix: 1 hour (at 23°C).
- Maximum applicable thickness: 5 cm per layer.
- Classification: EN 1504-6.
- Storage: 12 months.
- Application: pouring.
- Consumption: 2 kg/m² per mm of thickness.
- Packaging: 12.2 kg kits:
  - 1.6 kg drums (comp. A);
  - 0.6 kg drums (comp. B);
  - 10 kg bags (comp. C).
  - 36.6 kg units:
  - 4.8 kg drums (comp. A);
  - 1.8 kg drums (comp. B);
  - 30 kg bags (comp. C).
**Planigrout 310**

Three-component free-flowing high-strength rapid-hardening epoxy mortar applied in layers up to 10 cm thick for anchoring and grouting structures.

**TECHNICAL DATA:**

- **Maximum size of aggregate:** 6 mm.
- **Pot life of mix:** approx. 30 minutes (at +23°C).
- **Maximum applicable thickness:** 10 cm per layer.
- **Storage:** 24 months.
- **Application:** by pouring.
- **Consumption:** approx. 2.2 kg/l of cavities to be filled.
- **Packaging:**
  - 96.1 kg kit:
    - 10.5 kg drums (comp. A);
    - 1.6 kg canister (comp. B);
    - 84 kg vacuum-packed polyethylene bags (four 21 kg bags).

**IN COMPLIANCE WITH**

- **EUROPEAN STANDARD EN 1504-6**
- **ANCHORING STEEL REINFORCEMENT BARS EN 1504-6**
PRODUCTS FOR STRUCTURAL BONDING, SCREED REPAIRING AND INJECTING INTO CRACKED CONCRETE
### Adesilex PG1
Two-component, rapid-setting thixotropic adhesive for structural bonds.

**TECHNICAL DATA:**
- **Pot life of mix:** 35 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.65-1.75 kg/m² per mm of thickness.
- **Packaging:**
  - 2 kg kits: 1.5 kg drums (comp. A); 0.5 kg drums (comp. B).
  - 6 kg kits: 4.5 kg drums (comp. A); 1.5 kg drums (comp. B).

### Adesilex PG1 Rapid
Two-component, rapid-setting thixotropic adhesive for structural bonds.

**TECHNICAL DATA:**
- **Pot life of mix:** 10 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.65-1.75 kg/m² per mm of thickness.
- **Packaging:**
  - 6 kg kits: 4.5 kg drums (comp. A); 1.5 kg drums (comp. B).

### Adesilex PG2
Two-component thixotropic epoxy adhesive with long workability time for structural bonds.

**TECHNICAL DATA:**
- **Pot life of mix:** 50 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.65-1.75 kg/m² per mm of thickness.
- **Packaging:**
  - 6 kg kits: 4.5 kg drums (comp. A); 1.5 kg drums (comp. B).

### Adesilex PG4
Two-component, thixotropic epoxy adhesive with modified rheology for bonding MAPEBAND, MAPEBAND TPE, PVC strips and Hypalon and for structural bonds.

**TECHNICAL DATA:**
- **Pot life of mix:** 70 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.60-1.65 kg/m² per mm of thickness.
- **Packaging:**
  - 2 kg kits: 1.5 kg drums (comp. A); 0.5 kg drums (comp. B).
  - 6 kg kits: 4.5 kg drums (comp. A); 1.5 kg drums (comp. B).
  - 30 kg kits: 22.5 kg drums (comp. A); 7.5 kg drums (comp. B).
**Epojet**

Two-component, super-fluid epoxy resin for injections and anchorings.

**TECHNICAL DATA:**
- Pot life of mix: 40 minutes (at +23°C).
- Classification: EN 1504-5 and EN 1504-6.
- Storage: 24 months.
- Application: injection or pouring.
- Consumption:
  - sealing cracks: 1.1 kg/l of cavities to be filled;
  - bonding concrete to steel: 1.1 kg/m² per mm of thickness.
- Packaging:
  - 2.5 kg kits:
    - 2 kg drums (comp. A);
    - 0.5 kg bottles (comp. B).
  - 4 kg kits:
    - 3.2 kg drums (comp. A);
    - 0.8 kg bottles (comp. B).

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**Epojet LV**

Two-component epoxy resin with a very low viscosity for injecting into micro-cracks, also on wet surfaces.

**TECHNICAL DATA:**
- Pot life of mix: 35 minutes (at +23°C).
- Classification: EN 1504-5.
- Storage: 24 months.
- Application: injection or pouring.
- Consumption:
  - sealing cracks: 1.1 kg/l of cavities to be filled;
  - bonding concrete to steel: 1.1 kg/m² per mm of thickness.
- Packaging:
  - 2.5 kg kits:
    - 2 kg drums (comp. A);
    - 0.5 kg bottles (comp. B).

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**Eporip**

Two-component, solvent-free, epoxy adhesive for construction joints and monolithic sealing of cracked screeds.

**TECHNICAL DATA:**
- Setting time: 24 hours.
- Workability time: 60 minutes (at +23°C).
- Open time: 5 hours (at +10°C).
- Storage: 24 months.
- Application: brush, trowel or by pouring.
- Consumption: for bonding 1.35 kg/dm³.
- Packaging: 10 kg kits:
  - 7.5 kg of component A, 2.5 kg of component B.
  - 2 kg kits:
    - 1.5 kg of component A, 0.5 kg of component B.

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**Eporip Turbo**

Two-component, quick-hardening polyester resin for sealing of cracked screeds and for little repair works.

**TECHNICAL DATA:**
- Pot life of mix: 7 minutes (at +23°C).
- Storage: 12 months.
- Application: brush or pouring.
- Consumption: 1.7 kg/l of cavities to be filled.
- Packaging: boxes of 6x508 g kits:
  - 500 g metal drums (comp. A);
  - 8 g tubes (comp. B).
PRODUCTS FOR GALVANIC CATHODIC PROTECTION
### Mapeshield E 25
Adhesive zinc plates applied directly on the surface of structures for galvanic cathodic protection against the corrosion of steel reinforcement rods.

**TECHNICAL DATA:**
- **Thickness of plate:** 0.25 mm.
- **Height:** 25 cm.
- **Weight:** 3.15 kg/m² ± 5%.
- **Application:** external surfaces of concrete.
- **Consumption:** according to the density of steel reinforcement.
- **Packaging:** wooden boxes with 1 25 m x 25 cm wide rolls.

### Mapeshield I
Pure zinc anodes coated with a special conductive paste, for galvanic cathodic protection against corrosion of steel reinforcement in new structures and in structures requiring repair.

**TECHNICAL DATA:**
- **Mapeshield I 10**
  - External surface: 100 x 50 mm ± 10%
  - Height: 12 mm ± 10%
  - Weight: 230 g ± 10%
  - Storage: 12 months.
  - Application: directly on steel reinforcement.
  - Consumption: according to the density of steel reinforcement.
  - Packaging: boxes of 24 pieces.
- **Mapeshield I 30**
  - External surface: 300 x 50 mm ± 5%
  - Height: 10 mm ± 10%
  - Weight: 450 g ± 10%
  - Storage: 12 months.
  - Application: directly on steel reinforcement.
  - Consumption: according to the density of steel reinforcement.
  - Packaging: boxes of 12 pieces.

### Mapeshield S
Zinc plate with adhesive backing for galvanic cathodic protection against the corrosion of steel structures exposed to atmospheric conditions.

**TECHNICAL DATA:**
- **Thickness of plate:** 0.80 mm.
- **Height:**
  - MAPESHIELD S 100: 10 cm;
  - MAPESHIELD S 200: 20 cm;
  - MAPESHIELD S 300: 30 cm.
- **Weight:** 0.70 kg/m² ± 5%.
- **Storage:** 12 months.
- **Application:** on the surface of metal structures.
- **Packaging:**
  - MAPESHIELD S 100: boxes containing 5 10 cm x 50 m rolls;
  - MAPESHIELD S 200: boxes containing 3 20 cm x 50 m rolls;
  - MAPESHIELD S 300: boxes containing 2 30 cm x 50 m rolls.
COMPOSITE SYSTEMS FOR STRUCTURAL STRENGTHENING
**Adesilex PG1**
Two-component, rapid-setting thixotropic adhesive for structural bonds.

**Technical Data:**
- **Pot life of mix:** 35 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.65-1.75 kg/m² per mm of thickness.
- **Packaging:**
  - 2 kg kits:
    - 1.5 kg drums (comp. A);
    - 0.5 kg drums (comp. B).
  - 6 kg kits:
    - 4.5 kg drums (comp. A);
    - 1.5 kg drums (comp. B).

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**Adesilex PG2**
Two-component thixotropic epoxy adhesive with long workability time for structural bonds.

**Technical Data:**
- **Pot life of mix:** 50 minutes (at +23°C).
- **Minimum applicable thickness:** 1-2 mm.
- **Maximum applicable thickness:** 1 cm per layer.
- **Classification:** EN 1504-4.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.65-1.75 kg/m² per mm of thickness.
- **Packaging:**
  - 6 kg kits:
    - 4.5 kg drums (comp. A);
    - 1.5 kg drums (comp. B).

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**Carboplate**
Pultruded carbon fibre plate with a protective plastic film on both faces.

**Technical Data:**
- **Modulus of elasticity:** ≥ 160 - ≥ 190 - ≥ 250.
- **Fibre content:** 68% - 68% - 68%.
- **Thickness:** 1.4 mm.
- **Width:** 50, 100 and 150 mm.
- **Resistant section:** 70, 140 and 210 mm².
- **Tensile strength (MPa):** ≥ 2700 - ≥ 3100 - ≥ 2400.
- **Elongation at failure:** 1.6% - 1.6% - 0.95%.
- **Packaging:** 25 m rolls.
**Carbotube**
Pultruded carbon fibre tube preformed with epoxy resin with a protective plastic film for reinforced stitching in masonry.

**Technical Data:**
- Tensile modulus of elasticity: 170,000 N/mm².
- Content of fibre by weight: 68%.
- Tensile strength: 3,100 N/mm².
- Outside diameter: 10 mm.
- Inside diameter: 8 mm.
- Elongation at failure: 1.6%.
- Packaging: boxes of 10x2 m rolls.

**Epojet**
Two-component, super-fluid epoxy resin for injections and anchorings.

**Technical Data:**
- Pot life of mix: 40 minutes (at +23°C).
- Classification: EN 1504-5 and EN 1504-6.
- Storage: 24 months.
- Application: injection or pouring.
- Consumption:
  - Sealing cracks: 1.1 kg/l of cavities to be filled;
  - Bonding concrete to steel: 1.1 kg/m² per mm of thickness.
- Packaging:
  - 2.5 kg kits:
    - 2 kg drums (comp. A);
    - 0.5 kg bottles (comp. B).
  - 4 kg kits:
    - 3.2 kg drums (comp. A);
    - 0.8 kg bottles (comp. B).

**Injectors Ø 23**
Plastic injectors with a non-return valve for injecting epoxy resin.

**Technical Data:**
- Outside diameter: 23 mm.
- Length: 80 mm.
- Diameter of injection hole: 5 mm.

**Mapegrid B 250**
Alkali-resistant, primed basalt-fibre mesh for structural “reinforced” strengthening of stone masonry, brick, tuff and concrete surfaces.

**Technical Data:**
- Type of fibre: basalt fibre.
- Weight: 250 g/m².
- Mesh size: 8 x 6 mm.
- Tensile strength: 60 kN/m.
- Elongation at failure: 1.8%.
- Packaging: 1 m x 50 m rolls.
**Mapecgrid B 300**
Pre-primed alkali-resistant basalt fibre mesh for structural “reinforced” strengthening of concrete and masonry structures.

**Mapecgrid B 400**
Pre-primed alkali-resistant basalt fibre mesh for structural “reinforced” strengthening of masonry structures made of stone, brick, tuff and concrete.

**Mapecgrid C 170**
High-strength carbon fibre mesh for “reinforced” structural strengthening work on masonry structures made of stone, brick, tuff and concrete.

**Mapecgrid G 120**
Pre-primed, alkali-resistant (A.R.) glass fibre mesh, for localised reinforced “strengthening” of masonry substrates made of stone, brick, tuff and concrete.

**TECHNICAL DATA:**
- **Type of fibre:** basalt fibre.
- **Weight:** 300 g/m².
- **Mesh size:** 8x8 mm.
- **Tensile strength:** ≥ 3100 MPa.
- **Elongation at failure:** ≥ 3.5%.
- **Packaging:** 1 m x 50 m rolls.

**TECHNICAL DATA:**
- **Type of fibre:** high-strength carbon.
- **Weight:** ≥170 g/m².
- **Mesh size:** 10x10 mm.
- **Tensile strength:** ≥240 kN/m.
- **Elongation at failure:** 2%.
- **Packaging:** 50 m long by 1 m wide rolls.

**TECHNICAL DATA:**
- **Type of fibre:** A.R. type glass fibre
- **Weight:** 125 g/m².
- **Mesh size:** 12.7 x 12.7 mm.
- **Tensile strength:** 30 kN/m.
- **Elongation at failure:** 1.8%.
- **Packaging:** 25 m x 45 cm rolls and 50 m x 1 m rolls.
**Mapegrid G 220**
Alkali-resistant, pre-primed glass fibre mesh for structural “reinforced” strengthening of stone, brick and tuff and mixed masonry structures.

**Mapei Steel Bar 304**
Ultra high-strength helical bars in AISI 304 stainless steel for reinforced pointing on masonry structures.

**Mapei Steel Bar 316**
Ultra high-strength helical bars in AISI 316 stainless steel for reinforced pointing on masonry structures.

**Mapei Steel Dry 316**
Ultra high-strength “dry-applied” helical AISI 316 stainless steel bars for strengthening reinforced concrete, masonry and wooden structural members. Available in 6, 8 and 10 mm diameter. Available upon request in AISI 304 stainless steel.

**Mapei Steel Dry 316**
Type of steel: ultra high-strength AISI 316 steel.
Diameter: 6, 8 and 10 mm.
Length:
- Ø 6 mm: lengths of 40, 60 and 100 cm;
- Ø 8 mm: lengths of 40, 60, 80 and 100 cm;
- Ø 10 mm: lengths of 40, 60 and 80 cm.
Packaging: boxes of 50 pieces (40 and 60 cm lengths); tubes of 50 pieces (80 and 100 cm lengths).

**Technical Data:**
- Type of fibre: A.R. type glass fibre.
- Weight: 225 g/m².
- Mesh size: 25 x 25 mm.
- Tensile strength: 45 kN/m.
- Elongation at failure: < 1.8%.
- Packaging: 45.70 m x 90 cm rolls.

**Technical Data:**
- Type of steel: ultra high-strength AISI 304 steel.
- Diameter: 6 mm.
- Packaging: 10 m rolls.

**Technical Data:**
- Type of steel: ultra high-strength AISI 316 steel.
- Diameter: 6 mm.
- Packaging: 10 m rolls.

**Technical Data:**
- Type of fibre: A.R. type glass fibre.
- Weight: 225 g/m².
- Mesh size: 25 x 25 mm.
- Tensile strength: 45 kN/m.
- Elongation at failure: < 1.8%.
- Packaging: 45.70 m x 90 cm rolls.
**Maperod C**
High tensile pultruded carbon fibre rebars pre-formed with epoxy resin for structural strengthening of damaged concrete, wooden and masonry elements.

**Maperod C**

**TECHNICAL DATA:**
- Modulus of elasticity: 155,000 N/mm².
- Fibre content: 71%.
- Transversal section: 73.9 mm².
- Tensile strength: 2,000 N/mm².
- Single shear strength: 75 N/mm².
- Nominal diameter: 9.7 mm.
- Packaging: boxes of 10x2 m rolls.
**Maperod G**

Pultruded glass fibre rebar pre-formed with epoxy-modified vinylester resin for structural reinforcement of damaged reinforced concrete, brick, stone and tuff elements.

**TECHNICAL DATA:**
- **Tensile modulus of elasticity:** 40,800 N/mm².
- **Fibre content:** 75%.
- **Transversal section:** 71.26 mm².
- **Tensile strength:** 760 N/mm².
- **Nominal diameter:** 9.53 mm.
- **Shear strength:** 152 N/mm².
- **Packaging:** boxes of 10x6 m rolls.

**Mapewrap 11**

Two-component, normal-setting, thixotropic epoxy grout for evening out concrete surfaces and for structural bonding.

**TECHNICAL DATA:**
- **Workability time:** 35 minutes (at +23°C).
- **Bond strength to concrete:** > 3 N/mm² (after 7 days at +23°C - failure of substrate).
- **Classification:** EN 1504-4.
- **Application:** trowel.
- **Consumption:** 1.55 kg/m² per mm of thickness.
- **Packaging:**
  - 6 kg kits:
    - 4.5 kg drums (comp. A);
    - 1.5 kg drums (comp. B).

**Mapewrap 12**

Two-component, slow-setting, thixotropic epoxy grout for evening out concrete surfaces and for structural bonding.

**TECHNICAL DATA:**
- **Workability time:** 50 minutes (at +23°C).
- **Bond strength to concrete:** > 3 N/mm² (after 7 days at +23°C - failure of substrate).
- **Classification:** EN 1504-4.
- **Application:** trowel.
- **Consumption:** 1.55 kg/m² per mm of thickness.
- **Packaging:**
  - 6 kg kits:
    - 4.5 kg drums (comp. A);
    - 1.5 kg drums (comp. B).

**Mapewrap 21**

Two-component, super-fluid epoxy resin for impregnating MAPEWRAP using the “damp system”.

**TECHNICAL DATA:**
- **Workability time:** 40 minutes (at +23°C).
- **Bond strength to concrete:** > 3 N/mm² (after 7 days at +23°C - failure of substrate).
- **Brookfield Viscosity:** 300 mPa·s (rotor 1 - 10 revs).
- **Classification:** EN 1504-4.
- **Consumption:** according to the type and width of the fabric.
- **Packaging:**
  - 5 kg kits:
    - 4 kg drums (comp. A);
    - 1 kg drums (comp. B).
**MapeWrap 31**
Two-component, medium-viscosity epoxy adhesive for impregnating MAPEWRAP using the “dry system”.

**TECHNICAL DATA:**
- Workability time: 40 minutes (at +23°C).
- Bond strength to concrete: > 3 N/mm² (after 7 days at +23°C - failure of substrate).
- Brookfield viscosity: 6,500 mPa.s (rotor 3 - 10 revs).
- Classification: EN 1504-4.
- Consumption: according to the type and width of the fabric.
- Packaging: 5 kg kits:
  - 4 kg drums (comp. A);
  - 1 kg drums (comp. B).

**MapeWrap 31 T**
Thixotropic epoxy adhesive for impregnating MAPEWRAP fabrics using the “dry system”.

**TECHNICAL DATA:**
- Workability time: 50 minutes (at +23°C).
- Adhesion to concrete: > 3 N/mm² (after 7 days at +23°C - failure of concrete).
- Brookfield viscosity: 70,000 mPa.s (rotor 6 - 10 revs).
- Consumption: according to the type and width of the fabric.
- Packaging: 5 kg kits:
  - 4 kg drums (comp. A);
  - 1 kg drums (comp. B).

**MapeWrap B FIOCCO**
Unidirectional high strength basalt fibre cord to be impregnated with MAPEWRAP 21 (two-component super-fluid epoxy resin) to make “structural connections”.

**TECHNICAL DATA:**
- Type of fibre: high-strength basalt.
- Diameters available: 10, 12 mm.
- Equivalent surface of dry fabric:
  - diam. 10 mm 24.27 mm²;
  - diam. 12 mm 28.76 mm².
- Modulus of elasticity: 3,101 N/mm².
- Elongation at failure: 3.15%.
- Packaging: 10 m rolls.

**MapeWrap B UNI-AX**
Unidirectional, high strength basalt fibre fabric.

**TECHNICAL DATA:**
- Weight: 400-600 g/m².
- Equivalent thickness of dry fabric: 0.143-0.215 mm.
- Tensile strength: 4.840 N/mm².
- Tensile modulus of elasticity: 89 GPa.
- Width: 40 cm.
- Elongation at failure: 3.15%.
- Packaging: 50 m rolls.
**MapeWrap C BI-AX**  
Balanced, high-strength, bi-directional carbon fibre fabric.

**TECHNICAL DATA:**  
- **Weight:** 230-360 g/m².  
- **Equivalent thickness of dry fabric:** 0.064-0.10 mm.  
- **Tensile strength:** > 4,800 MPa.  
- **Tensile modulus of elasticity:** 230 GPa.  
- **Width:** 20-40 cm.  
- **Elongation at failure:** 2.1%.  
- **Packaging:** 50 m rolls.

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**Mapewrap C Connector**  
20/15/6 mm - 20/15/8 mm - 20/15/10 mm  
Pultruded carbon fibre connector for anchoring with one end to be impregnated with MAPEWRAP 21  
Length of the pre-formed bar: 20 cm, length of the open end: 15 cm. Available with 6, 8 and 10 mm diameter.  
Glass fiber version available upon request.

**TECHNICAL DATA:**  
- **Type of fibre:** high-strength carbon.  
- **Diameters available:** 6, 8, 10 mm.  
- **Nominal area:**  
  - diameter 6 mm 28.30 mm²;  
  - diameter 8 mm 50.30 mm²;  
  - diameter 10 mm 78.50 mm²;  
- **Modulus of elasticity:** 150,000 N/mm² ± 5%.  
- **Tensile strength:** ≥2,100 N/mm².  
- **Elongation at failure:** 1.8%.  
- **Packaging:** 50 pcs box.

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**MapeWrap C FIOCCO**  
High-strength carbon fibre cord to be impregnated with MAPEWRAP 21 (two-component, super-fluid epoxy resin) to make “structural connections”.

**TECHNICAL DATA:**  
- **Type of fibre:** high-strength carbon.  
- **Diameters available:** 6, 8, 10 and 12 mm.  
- **Equivalent surface area of dry fabric:**  
  - diam. 6 mm 15.70 mm²;  
  - diam. 8 mm 21.24 mm²;  
  - diam.10 mm 26.79 mm²;  
  - diam.12 mm 31.40 mm²;  
- **Modulus of elasticity:** 230,000 N/mm².  
- **Tensile strength:** 4,830 N/mm².  
- **Elongation at failure:** 1.5%.  
- **Packaging:** 10 m rolls.

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**MapeWrap C QUADRI-AX**  
Balanced, high-strength, quadri-directional carbon fibre fabric.

**TECHNICAL DATA:**  
- **Weight:** 380 g/m².  
- **Equivalent thickness of dry fabric:** 0.053 mm.  
- **Tensile strength:** > 4,800 MPa.  
- **Tensile modulus of elasticity:** 230 GPa.  
- **Width:** 30-48.5 cm.  
- **Elongation at failure:** 2.1%.  
- **Packaging:** 50 m rolls.
23. COMPOSITE SYSTEMS FOR STRUCTURAL STRENGTHENING

**MapeWrap C UNI-AX**
High-strength, unidirectional carbon fibre fabric with a high modulus of elasticity.

**TECHNICAL DATA:**
- Weight: 300-600 g/m².
- Equivalent thickness of dry fabric: 0.164-0.331 mm.
- Tensile strength: ≥ 4,900 N/mm².
- Tensile modulus of elasticity: 390,000 N/mm².
- Elongation at failure: ≥ 2%.
- Width: 10 - 20 - 40 cm.
- Packaging: 50 m rolls.

**MapeWrap EQ Net**
Bi-directional, primed glass fibre fabric to protect secondary partition walls in buildings from seismic activity and to prevent brick-cement floors collapsing.

**TECHNICAL DATA:**
- Type of fibre: type E glass fibre.
- Weight: 286 g/m².
- Equivalent thickness of dry fabric: 0.057 mm².
- Tensile strength: > 1620 N/mm².
- Tensile modulus of elasticity: 42 GPa.
- Width: 100 cm.
- Elongation at failure: 4%.
- Packaging: 50 m rolls.

**MapeWrap C UNI-AX HM**
High-strength unidirectional carbon fibre fabric with very high modulus of elasticity.

**TECHNICAL DATA:**
- Weight: 300-600 g/m².
- Equivalent thickness of dry fabric: 0.164-0.329 mm.
- Tensile strength: 4,410 N/mm².
- Tensile modulus of elasticity: 252,000 ± 2% N/mm².
- Elongation at failure: ≥ 2%.
- Width: 10 - 20 - 40 cm.
- Packaging: 50 m rolls.

**MapeWrap EQ Adhesive**
One-component, ready-to-use, polyurethane-based adhesive in watery dispersion with very low emission level of volatile organic compounds (VOC) for impregnating MAPEWRAP EQ NET bi-directional, primed glass fibre fabric.

**TECHNICAL DATA:**
- Consistency: gel.
- Colour: milky white.
- Storage: 12 months (protect from frost).
- Final hardening time: 24 hours.
- EMICODE: EC1 Plus - very low emission.
- Consumption: 0.5-0.6 kg/m².
- Packaging: 6 kg drums.
**MapeWrap S Fabric 650**
High-strength uni-directional galvanized steel fibre fabric for structural strengthening.

**TECHNICAL DATA:**
- **Type of fibre:** galvanized steel fibres.
- **Weight (metallic fibres only):** 650 g/m².
- **Load-resistant area per unit of width:** 97,405 mm²/m.
- **Tensile strength:** > 2,580 N/mm².
- **Tensile modulus of elasticity:** 200,000 N/mm².
- **Elongation at failure:** 1.29%.
- **Width:** 30 cm.
- **Packaging:** 50 m rolls.

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**MapeWrap G FIOCCO**
High-strength glass fibre cord to be impregnated with MAPEWRAP 21 (two-component, super-fluid epoxy resin) to make “structural connections”.

**TECHNICAL DATA:**
- **Type of fibre:** E type glass.
- **Diameters available:** 6, 8, 10 and 12 mm.
- **Equivalent surface area of dry fabric:**
  - diam. 6 mm: 16.34 mm²;
  - diam. 8 mm: 21.45 mm²;
  - diam. 10 mm: 27.58 mm²;
  - diam. 12 mm: 32.69 mm².
- **Modulus of elasticity:** 80,700 N/mm².
- **Tensile strength:** > 2,560 N/mm².
- **Elongation at failure:** > 3%.
- **Packaging:** 10 m rolls.

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**MapeWrap G UNI-AX**
Unidirectional, high strength glass fibre fabric.

**TECHNICAL DATA:**
- **Type of fibre:** E type glass.
- **Weight:** 900 g/m².
- **Equivalent thickness of dry fabric:** 0.48 mm.
- **Tensile strength:** 2,560 N/mm².
- **Tensile modulus of elasticity:** 80.7 GPa.
- **Elongation at failure:** 3-4%.
- **Width:** 30-60 cm.
- **Packaging:** 50 m rolls.

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**MapeWrap Primer 1**
Two-component epoxy primer specifically formulated for the MAPEWRAP system.

**TECHNICAL DATA:**
- **Workability time:** 90 minutes (at +23°C).
- **Bond strength to concrete:** > 3 N/mm² (after 7 days at +23°C - failure of substrate).
- **Brookfield Viscosity:** 300 mPa·s (rotor 1 - 10 revs).
- **Consumption:** 250-300 g/m².
- **Packaging:**
  - 2 kg kits:
  - 1.5 kg drums (comp. A);
  - 0.5 kg drums (comp. B).
MapeWrap HDM Maxi
Two-component ready-mixed, high ductility pozzolan-reaction, fibre-reinforced mortar for structural “reinforced” strengthening work, when used in combination with mesh from the MAPEGRID line, and for smoothing and levelling concrete and masonry.

TECHNICAL DATA:
- Maximum dimension of aggregate: 1 mm.
- Mixing ratio: 4 parts of PLANITOP HDM MAXI comp. A with 1 part of PLANITOP HDM MAXI comp. B.
- Pot life of mix: approximately 1 hour (at +20°C).
- Maximum applicable thickness: 25 mm.
- Classification: EN 1504-3 - class R2 non-structural mortar and EN 998-2 - type G mortars, class M25.
- Storage: 12 months (comp. A); 24 months (comp. B).
- Application: gauging trowel, trowel or rendering machine.
- Consumption: approximately 1.85 kg/m² per mm of thickness.
- Packaging: 31.25 kg kits:
  - 25 kg vacuum-packed polyethylene bags (comp. A);
  - 6.25 kg drums (comp. B).

Planitop HDM Restauro
Two-component, pre-blended, high-ductility, fibre-reinforced, cement-free hydraulic lime (NHL) and ECO-POZZOLAN-based light-coloured mortar, particularly recommended for “reinforced” structural strengthening of masonry substrates in combination with the MAPEGRID meshes and for evening out stone, brickwork and tuff substrates.

TECHNICAL DATA:
- Maximum dimension of aggregate: 1.5 mm.
- Mixing ratio: 1 25 kg comp. A with 1 drums of comp. B.
- Pot life of mix: approximately 1 hour (at +20°C).
- Maximum applicable thickness: from 3 to 10 mm per layer.
- Classification: EN 998-1 - type GP mortar, category CS IV and EN 998-2 - type G mortar, class M15.
- Storage: 12 months (comp. A); 24 months (comp. B).
- Application: gauging trowel, trowel or rendering machine.
- Consumption: approximately 1.9 kg/m² per mm of thickness.
- Packaging: 30 kg kits:
  - 25 kg bags (comp. A);
  - 5 kg drums (comp. B).
**Planitop HPC**

Two-component ultra high performance shrinkage-compensated free-flowing high ductility fibre-reinforced cementitious mortar with stiff steel fibres for restoring and repairing concrete.

N.B.: PLANITOP HPC is sold with FIBRES HPC (1.625 kg of FIBRES HPC per 25 kg bag of PLANITOP HPC).

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 2.5 mm.
- **Mixing ratio:** 100 parts of PLANITOP HPC with 6.5 parts of FIBRES HPC and 12-13 parts of water.
- **Pot life of mix:** approximately 1 h (at +20°C).
- **Minimum thickness:** 1.5 cm.
- **Maximum thickness:** 5 cm per layer.
- **Classification:** EN 1504-3 class R4 structural mortar and EN 1504-6.
- **Application:** pouring into formwork.
- **Consumption:** approx. 20 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum-packed polyester bag.

**Fibres HPC**

Stiff steel fibres used in combination with PLANITOP HPC mortar.

**TECHNICAL DATA:**
- **Consumption:** 1.625 kg per 25 kg bag of PLANITOP HPC.
- **Packaging:** 6.5 kg box.

**Planitop HPC Floor**

One-component, ultra-high strength, highly ductile, highly fluid, fibre-reinforced with steel fibres, compensated shrinkage cementitious mortar for strengthening the external face of floor slabs.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 1 mm.
- **Mixing ratio:** 100 parts of PLANITOP HPC FLOOR with 11.5-12.5 parts of water.
- **Pot life of mix:** approx. 1h (at +20°C).
- **Minimum thickness:** 1 cm.
- **Maximum thickness:** 4 cm.
- **Classification:** EN 1504-3 category R4 structural mortar and EN 1504-6.
- **Application:** pouring/casting.
- **Consumption:** approx. 21 kg/m² per cm of thickness.
- **Packaging:** 25 kg vacuum packed polyester bag.

**Planitop HPC Floor 46**

Ultra-high performance, high ductility, free-flowing cementitious mortar reinforced with steel fibres.

**TECHNICAL DATA:**
- **Maximum size of aggregate:** 6 mm.
- **Mixing ratio:** 100 parts of PLANITOP HPC FLOOR 46 with 9.5-10 parts of water.
- **Pot life of mix:** approx. 45 mins. (at +20°C).
- **Minimum applicable thickness:** 45 cm.
- **Classification:** EN 1504-3 class R4 structural mortar.
- **Application:** pouring.
- **Consumption:** approx. 22 kg/m² per mm of thickness.
- **Packaging:** 25 kg vacuum-packed polyester bags and 1000 kg big bags.
23. COMPOSITE SYSTEMS FOR STRUCTURAL STRENGTHENING

**Planitop HPC Floor 46 T**
Ultra-high performance, high ductility, semi-fluid cementitious mortar reinforced with steel fibres.

**Planitop HPC Floor T**
One-component, very high performance, high ductility, reinforced with steel fibres, compensated-shrinkage, semi-fluid cementitious mortar for strengthening the underside of floors. Particularly suitable for warped wooden floors.

**Planitop HPC LV**
Ultra high performance self-compacting expanding cementitious mortar.

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**Planitop HPC Floor 46 T**

**TECHNICAL DATA:**
- Maximum size of aggregate: 6 mm.
- Mixing ratio: 100 parts of PLANITOP HPC FLOOR 46 T with 9.2-9.7 parts of water.
- Minimum applicable thickness: 45 cm.
- Classification: EN 1504-3 class R4 structural mortar.
- Application: pouring.
- Consumption: approx. 22 kg/m² per mm of thickness.
- Packaging: 25 kg vacuum-packed polyester bags and 1000 kg big bags.

**Planitop HPC Floor T**

**TECHNICAL DATA:**
- Maximum size of aggregate: 1 mm.
- Mixing ratio: 100 parts of PLANITOP HPC FLOOR T with 11.5-12.5 parts of water.
- Pot life of mix: approx. 40 mins. (at +20°C).
- Minimum applicable thickness: 1 cm.
- Maximum applicable thickness: 4 cm.
- Classification: EN 1504-3 class R4 structural mortar.
- Application: by pouring.
- Consumption: approx. 21 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyester bags.

**Planitop HPC LV**

**TECHNICAL DATA:**
- Maximum size of aggregate: 6 mm.
- Mixing ratio: 100 parts of PLANITOP HPC LV with 9-9.4 parts of water.
- Pot life of mix: approx. 1 hour (at +20°C).
- Minimum applicable thickness: 2 cm.
- Maximum applicable thickness: 10 cm per layer.
- Classification: EN 1504-3 class R4 structural mortar, EN 1504-6.
- Application: pouring into formwork.
- Consumption: approx. 22 kg/m² per cm of thickness.
- Packaging: 25 kg vacuum-packed polyester bags.
Planitop HPC Tixo
Two-component, thixotropic, ultra-high performance, fibre-reinforced cementitious mortar, with a work-hardening effect, with steel fibres for restoring and repairing concrete structures.

N.B.: PLANITOP HPC TIXO is sold with FIBRES HPC (1.625 kg of FIBRES HPC per 25 kg bag of PLANITOP HPC TIXO).

Fibres HPC
Stiff steel fibres used in combination with PLANITOP HPC mortar.

Planitop Intonaco Armato
Two component, ready-mixed, cement-free, high-ductility fibre-reinforced natural hydraulic lime (NHL) and ECO-POZZOLAN mortar, containing 30% of recycled raw material, particularly recommended for levelling off the surface of stone, bricks and tuff, and for the structural strengthening of existing facing walls, including when extra strengthening mesh is not applied.

Spindle for Mapei Steel Dry
Special spindle for inserting “MAPEI STEEL DRY AISI 316” spiral rods. Complete with adapter for SDS hammer drill for dry application.
PRODUCTS FOR THERMAL INSULATION
24. PRODUCTS FOR THERMAL INSULATION

**Mapetherm AR1**
One-component cementitious mortar for bonding and levelling insulation panels and for thermal insulation systems.
ETA 04/0061
ETA 10/0024
ETA 10/0025

**Mapetherm AR1 GG**
One-component, large-grained cementitious mortar for bonding and levelling insulation panels and for thermal insulation systems.
ETA 10/0024
ETA 10/0025

**Mapetherm AR1 Light**
One-component, lightweight, cementitious mortar for bonding and skimming insulating panels and thermal insulation systems.

**Mapetherm AR1 Maxi**
One-component cementitious mortar with increased grain size for bonding and smoothing of thermal insulating panels and for external thermal insulation systems.

**TECHNICAL DATA:**
- **Consistency:** Powder.
- **Colour:** Grey.
- **Density of the mix (kg/m³):** 1,450.
- **Application temperature range:** From +5°C to +35°C.
- **Mixing ratio:** 21-24% with water by weight.
- **Cleaning:** Water.
- **Storage:** 12 months.
- **Application:** Trowel.
- **Consumption (kg/m²):**
  - 4.0-6.0 kg/m² depending on the bonding technique used.
  - 1.3-1.5 kg/m² per mm of thickness when used as smoothing compound (recommended: approx. 4 mm in 2 coats).
- **Packaging:** 25 kg.

**TECHNICAL DATA:**
- **Consistency:** Powder.
- **Colour:** Grey and white.
- **Density of the mix (kg/m³):** 1,400.
- **Application temperature range:** From +5°C to +35°C.
- **Mixing ratio:** 21-24% with water by weight.
- **Cleaning:** Water.
- **Storage:** 12 months.
- **Application:** Trowel.
- **Consumption (kg/m²):**
  - 4.0-6.0 kg/m² depending on the bonding technique used.
  - 1.35-1.55 kg/m² per mm of thickness when used as smoothing compound (recommended: approx. 4 mm in 2 coats).
- **Packaging:** 25 kg.

**TECHNICAL DATA:**
- **Consistency:** Powder.
- **Colour:** White.
- **Density of the mix (kg/m³):** 1,300.
- **Application temperature range:** From +5°C to +35°C.
- **Mixing ratio:** 29-31% with water by weight.
- **Cleaning:** Water.
- **Storage:** 12 months.
- **Application:** Trowel.
- **Consumption (kg/m²):**
  - 3.0-5.0 kg/m² according to the bonding technique used.
  - 1.20-1.40 kg/m² per mm of thickness when used for skimming (recommended: approx. 4 mm).
- **Packaging:** 23 kg.

**TECHNICAL DATA:**
- **Consistency:** Powder.
- **Colours:** White and grey.
- **Density of mix (kg/m³):** 1500.
- **Application temperature range:** From +5°C to +35°C.
- **Mixing ratio:** 24-27% with water by weight.
- **Cleaning:** Water.
- **Storage:** 12 months.
- **Application:** Trowel.
- **Consumption (kg/m²):**
  - 4.0-6.0 kg/m² depending on the bonding technique.
  - 1.35-1.55 kg/m² per mm of thickness as smoothing compound (recommended: approx. 4 mm in 2 coats).
- **Packaging:** 25 kg.
**Mapetherm Ba**
Aluminium starting profiles with drip channel, available in sizes 4, 5, 6, 8 and 10 cm.

**TECHNICAL DATA:**
- **Composition:** aluminium.
- **Colour:** grey.
- **Dimensions m:** 2.50.
- **Packaging:** packages of 20 pieces.

---

**Mapetherm Cork**
Cork insulating panels for thermal insulation systems.

**TECHNICAL DATA:**
- **Composition:** expanded cork.
- **Colour:** brown.
- **Thickness available mm:** 40, 50, 60, 80 and 100.
- **Dimensions of panel mm:** 1000 x 500.
- **Packaging:** from 1.5 to 4 m² (according to the thickness).

---

**Mapetherm Dripnose Bead**
PVC corner profile with drip channel and 10 cm wide alkali-resistant glass fibre mesh for door and window openings. May be used as a drip channel for balconies and projecting features.

**TECHNICAL DATA:**
- **Composition:** PVC.
- **Colour:** white.
- **Dimensions m:** 2.50.
- **Packaging:** packs of 20 profiles.

---

**Mapetherm EPS**
Extruded sintered polystyrene insulating panels for thermal insulation systems.

**ETA 10/0025**

**TECHNICAL DATA:**
- **Composition:** sintered expanded polystyrene.
- **Colour:** white.
- **Thickness available cm:** 4, 5, 6, 8 and 10.
- **Dimensions of panel cm:** 100 x 50.
- **Packaging:** from 3 to 7.5 m² (according to the thickness).
### Mapetherm FIX

Stud for fixing insulating panels and composite insulating systems in place, with a plug with a metal/nylon pin and polypropylene body.

ETA 09/0394

**TECHNICAL DATA:**
- **Composition:** synthetic material with zinc-plated steel nail.
- **Colour:** grey.
- **Sizes available mm:** 108, 128, 148.
- **Packaging:** boxes of 100 pieces.

### Mapetherm FIX 9

Polypropylene fastener.

**TECHNICAL DATA:**
- **Composition:** polypropylene.
- **Colour:** grey.
- **Sizes available mm:** 83.
- **Packaging:** boxes of 500 pieces.

### Mapetherm FIX B

Nylon self-tapping studs in zinc/chrome-plated steel.

**TECHNICAL DATA:**
- **Composition:** nylon and zinc/chrome-plated steel.
- **Colour:** grey.
- **Sizes available mm:** 45.
- **Packaging:** boxes of 100 pieces.

### Mapetherm Flex RP

Cement-free, fibre-reinforced, lightweight elastic flexible skimming paste resistant to biological agents for internal and external use. Available in the following granulometries: 0.5 mm and 1.5 mm.

**TECHNICAL DATA:**
- **Consistency:** paste.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (g/cm³):** approx. 1.45-1.50 (according to grain size).
- **Application temperature (of the substrate and the air):** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Consumption:**
  - 0.5 mm: 1.9-2.1 kg/m² per 1 mm of thickness;
  - 1.5 mm: 4.0-5.0 kg/m² per 1 mm of thickness.
- **Packaging:** 20 kg drums.
| **Mapetherm M. Wool** | TECHNICAL DATA:  
Composition: high density glass wool.  
Colour: yellow.  
Thickness available cm: 4, 5, 6, 8 and 10.  
Dimensions of panel cm: 120 x 60.  
Packaging: from 2.88 to 7.2 m² (according to the thickness).  
|  
| High-density, glass wool insulating panels for thermal insulation systems.  
ETA 10/0024 |  

| **Mapetherm Net** | TECHNICAL DATA:  
Composition: 100% glass fibre.  
Colour: white.  
Mesh size (mm): 4.15 x 3.8.  
Weight of primed mesh (g/m²): approx. 150.  
Storage: unlimited.  
Packaging: 50x1 m rolls.  
|  
| Alkali-resistant glass fibre mesh suitable for reinforced skimming layers when repairing façades, or for the execution of MAPETHERM thermal insulation systems.  
ETA 10/0024  
ETA 10/0025  
ETA 04/0061 |  

| **Mapetherm Profil** | TECHNICAL DATA:  
Composition: aluminium.  
Colour: grey.  
Dimensions m: 2.50.  
Packaging: boxes of 50 pieces.  
|  
| Pre-mounted aluminium angle iron incorporated with alkali-resistant glass fibre mesh. |  

| **Mapetherm Profil Ba** | TECHNICAL DATA:  
Composition: PVC.  
Colour: white.  
Dimensions m: 2.50.  
Packaging: packs of 25 profiles.  
|  
| PVC profile with drip channel and 10 cm wide alkali-resistant glass fibre mesh for MAPETHERM Ba starter profiles. |
24. PRODUCTS FOR THERMAL INSULATION

**Mapetherm Profil E**
PVC profile with 10 cm wide alkali-resistant glass fibre mesh and a flexible membrane for flat expansion joints.

**Mapetherm Profil V**
PVC profile with 10 cm wide alkali-resistant glass fibre mesh and a flexible membrane for corner expansion joints.

**Mapetherm Profil W**
Adhesive PVC profile with 10 cm wide alkali-resistant glass fibre mesh and a flexible membrane for the inside edge of window openings.

**TECHNICAL DATA:**
*Composition:* PVC.
*Colour:* white.
*Dimensions m:* 2.50.
*Packaging:* packs of 25 profiles.
PRODUCTS FOR TREATING ASBESTOS CEMENT SLABS
**Vinavil 03V**  
*Specially for asbestos*  
Temporary encapsulation of asbestos-cement panels.

**TECHNICAL DATA:**  
Consistency: fluid liquid.  
Colour: red.  
Density (EN ISO 2811-1) (g/cm³): approx. 1.08.  
Dry solids content (EN ISO 3251) (%): approx. 50.  
Dilution rate: ready to use; 25% of water if applied by pump.  
Waiting time before applying other products: 1-2 hours.  
Application temperature range: from +5°C to +35°C.  
Cleaning: water.  
Storage: 24 months.  
Application: roller, brush or pump.  
Consumption: approx. 0.2-0.3 kg/m².  
Packaging: 5, 10 and 25 kg.
WALL PROTECTIVE AND DECORATIVE COATINGS
### Antipluvio W

**High-performance, silicone water-repellent in watery solution for external walls.**

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Colour:** transparent.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.01.
- **Active substance content (%)**: 8.
- **Dilution rate:** supplied ready to use.
- **Surface drying time:** 1-2 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.2-1 kg/m² (according to the porosity of the substrate).
- **Packaging:** 10 kg.

### Antipluvio S

**Ultra high-performance, transparent, siloxane resin water-repellent impregnator.**

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Colour:** transparent.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 0.8.
- **Active substance content (%)**: 9.
- **Dilution rate:** supplied ready to use.
- **Surface drying time:** 1 hour.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** solvent (benzene, white spirit, etc.).
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.1-1 kg/m² (according to the porosity of the substrate).
- **Packaging:** 5 and 10 kg.

### Colorite Beton

**Semi-transparent, anti-carbonatation acrylic paint with a smooth finish for internal and external surfaces.**

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** colours from the colour chart range or other colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.27.
- **Dry solids content (EN ISO 3251) (%)**: approx. 59.
- **Dilution rate:** 10-15% of water.
- **Recoat time:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.25-0.3 kg/m² (for two coats).
- **Packaging:** 20 kg.
**Colorite Matt**

Highly-transparent water-based paint for internal use with excellent hiding power.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.65.
- **Dry solids content (EN ISO 3251) (%):** approx. 65.
- **Dilution rate:** 15-20% of water.
- **Recoat time:** 6-12 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² (for two coats of the product).
- **Packaging:** 5 and 20 kg.

**Colorite Performance**

Protective acrylic paint with high resistance to UV rays for internal and external use, available in a wide range of colours.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.35.
- **Dry solids content (EN ISO 3251) (%):** approx. 61.
- **Dilution rate:** 10-15% of water.
- **Recoat time:** 12-24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² (for two coats of the product).
- **Packaging:** 5 and 20 kg.

**Duresil EB**

Two-component, anti-acid epoxy paint modified with hydro-carbide resin for protecting concrete and steel surfaces.

**TECHNICAL DATA:**
- **Consistency:** component A fluid paste, component B fluid paste.
- **Colour:** black and grey.
- **Density (EN ISO 2811-1) (g/cm³):** component A 1.75, component B 1.40.
- **Dilution rate:** ready to use.
- **Complete hardening time:** 7 days.
- **Application temperature range:** from +5°C to +30°C.
- **Cleaning:** nitro solvent or xylol.
- **Storage:** 12 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.4-0.45 kg/m² for approx. 250 µm thickness (for one coat of the product).
- **Packaging:** 10 kg kits (A + B).

**Dursilac Base Filler**

Water based acrylic undercoat for interior and exterior use with high opacity and filling properties.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.53.
- **Dry solids content by weight (EN ISO 3251) (%):** approx. 66.
- **Dilution rate (% by volume):** max 10% with water.
- **Recoat time:** 12 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Coverage:** 6-8 m²/litre per coat.
- **Packaging:** 0.75 and 2.5 litres.
## Dursilac Gloss

Water based acrylic urethane enamel paint for interior and exterior use, with excellent flow and providing a hard-wearing Gloss Finish.

**TECHNICAL DATA:**
- Consistency: thick liquid.
- Colour: white or various colours using the ColorMap® automatic colouring system.
- Density (EN ISO 2811-1) (g/cm³): approx. 1.22.
- Dry solids content by weight (EN ISO 3251) (%): approx. 56.
- Dilution rate (% by volume): max 15% with water.
- Recoat time: 6-8 hours.
- Application temperature range: from +8°C to +35°C.
- Cleaning: water.
- Storage: 24 months.
- Application: roller, brush or spray.
- Coverage: 10-12 m²/litres per coat.
- Packaging: 0.75 and 2.5 litres.

## Dursilac Matt

Water based acrylic urethane enamel paint for interior and exterior use, with excellent flow and providing a hard-wearing Matt finish.

**TECHNICAL DATA:**
- Consistency: thick liquid.
- Colour: white or various colours using the ColorMap® automatic colouring system.
- Density (EN ISO 2811-1) (g/cm³): approx. 1.30.
- Dry solids content by weight (EN ISO 3251) (%): approx. 62.
- Dilution rate (% by volume): max 15% with water.
- Recoat time: 6-8 hours.
- Application temperature range: from +8°C to +35°C.
- Cleaning: water.
- Storage: 24 months.
- Application: roller, brush or spray.
- Coverage: 10-12 m²/litre per coat.
- Packaging: 0.75 and 2.5 litres.

## Dursilac No Rust

Anti-rust solvent-based primer, for internal and external application, with excellent adhesion and anti-corrosive power.

**TECHNICAL DATA:**
- Consistency: thick liquid.
- Colour: grey.
- Density (EN ISO 2811-1) (g/cm³): approx. 1.58.
- Dry solids content by weight (EN ISO 3251) (%): approx. 84.
- Dilution rate (% by volume): max 10% with white spirit or synthetic thinner.
- Recoat time: 12 hours.
- Application temperature range: from +5°C to +30°C.
- Cleaning: white spirit.
- Storage: 24 months.
- Application: roller, brush or spray.
- Coverage: 6-6 m²/litre per coat.
- Packaging: 0.75 and 2.5 litres.

## Dursilac Satin

Water based acrylic urethane enamel paint for interior and exterior use, with excellent flow and providing a hard-wearing Satin finish.

**TECHNICAL DATA:**
- Consistency: thick liquid.
- Colour: white or various colours using the ColorMap® automatic colouring system.
- Density (EN ISO 2811-1) (g/cm³): approx. 1.18.
- Dry solids content by weight (EN ISO 3251) (%): approx. 57.
- Dilution rate (% by volume): max 15% with water.
- Recoat time: 6-8 hours.
- Application temperature range: from +8°C to +35°C.
- Cleaning: water.
- Storage: 24 months.
- Application: roller, brush or spray.
- Coverage: 10-12 m²/litre per coat.
- Packaging: 0.75 and 2.5 litres.
**Dursilite**
Washable water-based paint with low dirt pick-up and excellent washability for internal walls.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.50.
- **Dry solids content (EN ISO 3251) (%):** approx. 65.
- **Dilution rate:** 15-20% of water.
- **Recoat time:** 6-12 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² (for two coats of the product).
- **Packaging:** 5 and 20 kg.

---

**Dursilite Base Coat**
Coloured smooth acrylic base coat, with a smooth finish and adhesion promoting properties.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.650.
- **Dry solids content (EN ISO 3251) (%):** approx. 68.
- **Dilution rate:** ready to use or diluted with 5% water.
- **Recoat time:** at least 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** brush, roller or spray.
- **Consumption:** 0.2-0.4 kg/m² per coat.
- **Packaging:** 5 and 20 kg.

---

**Dursilite Gloss**
Semi-gloss enamel wall paint for internal surfaces; long-lasting, high quality, stain-resistant finish.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.30.
- **Dry solids content (EN ISO 3251) (%):** approx. 55.
- **Dilution rate:** 0-10% of water.
- **Recoat time:** 6-12 hours.
- **Application temperature:** +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** brush, roller or spray.
- **Consumption:** 0.2-0.3 kg/m² (for two coats of product).
- **Packaging:** 4 and 16 kg.

---

**Dursilite Matt**
Transpirant, high opacity, washable water-based wall paint for internal use.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colours:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.60.
- **Dry solids content (EN ISO 3251) (%):** approx. 65.
- **Dilution rate:** 15-20% of water.
- **Recoat time:** 6-12 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** brush, roller or spray.
- **Consumption:** 0.3-0.4 kg/m² (for two coats of product).
- **Packaging:** 5 and 20 kg.
Dursilite Plus
Hygienising, washable and traspirant wall paint which is resistant to mould, for internal surfaces.

TECHNICAL DATA:
Consistency: thick liquid.
Colour: white or various colours using the ColorMap® automatic colouring system.
Density (EN ISO 2811-1) (g/cm³): approx. 1.60.
Dry solids content (EN ISO 3251) (%): approx. 65.
Dilution rate: 15-20% of water.
Application temperature range: from +5°C to +35°C.
Recoat time: 6-12 hours.
Cleaning: water.
Storage: 24 months.
Application: brush, roller or spray.
Consumption: 0.3-0.4 kg/m² (for two coats of product).
Packaging: 5 and 20 kg.

Elastocolor Net
Alkali-resistant glass fibre mesh for reinforcing fine-graded skimming pastes.

TECHNICAL DATA:
Composition: 100% glass fibre.
Colour: white.
Mesh size (mm): 2.7 x 2.7.
Weight of primed mesh (g/m²): approx. 61.
Storage: unlimited.
Packaging: 50 x 1 m rolls.

Elastocolor Paint
Elastomeric, crack-bridging, permanently flexible, protective paint with high resistance to chemicals for internal and external surfaces.

TECHNICAL DATA:
Consistency: thick liquid.
Colour: white or various colours using the ColorMap® automatic colouring system.
Density (EN ISO 2811-1) (g/cm³): approx. 1.37.
Dry solids content (EN ISO 3251) (%): approx. 63.
Dilution rate: 10-15% of water.
Recoat time: 12-24 hours.
Application temperature range: from +5°C to +35°C.
Cleaning: water.
Storage: 24 months.
Application: roller, brush or spray.
Consumption: 0.2-0.4 kg/m² per coat.
Packaging: 20 kg.

Elastocolor Paint Plus
Elastomeric hygenic paint with crack-bridging ability, for internal and external use, with long-lasting elasticity and mould and algae resistant.

TECHNICAL DATA:
Consistency: thick liquid.
Colour: white or various colours using the ColorMap® automatic colouring system.
Density (EN ISO 2811-1) (g/cm³): approx. 1.37.
Dry solids content (EN ISO 3251) (%): approx. 63.
Dilution rate: 10-15% of water.
Recoat time: 12-24 hours.
Application temperature range: from +5°C to +35°C.
Cleaning: water.
Storage: 24 months.
Application: roller, brush or spray.
Consumption: 0.2-0.4 kg/m² for coat.
Packaging: 20 kg.
**Elastocolor Primer**
Solvent-based high-penetration consolidating primer to even out surfaces.

**Elastocolor Rasante**
Fibre-reinforced, elastomeric, high flexibility finishing product with good defect covering capacity, for internal and external applications.

**Elastocolor Rasante SF**
Fibre-reinforced elastomeric, thick-layered finishing product with high filling properties, for internal and external surfaces.

**Elastocolor Tonachino Plus**
Elastic, water-repellent, mildew and mould-resistant, hygienising, elastomeric coating product for internal and external surfaces.
Available in the following grain sizes: 1.2 mm.

**TECHNICAL DATA:**
Consistency: thick liquid.
Colour: white or various colours using the ColorMap® automatic colouring system.
Density (EN ISO 2811-1) (g/cm³): approx. 1.35.
Dry solids content (EN ISO 3251) (%): approx. 77.
Dilution rate: as it is or diluted with 5-10% of water.
Recoat time: 24 hours.
Application temperature range: from +5°C to +35°C.
Cleaning: water.
Storage: 24 months.
Application: roller, brush or spray.
Consumption:
– trowel: 0.3-0.4 g/m² per coat;
– brush or roller: approx. 0.4 g/m² per coat;
– spray 0.4-0.7 g/m² per coat.
Packaging: 20 kg.
**Elastocolor Waterproof**
Waterproof, easy-to-clean acrylic paint for internal and external surfaces in permanent contact with water.

**Malech**
Acrylic resin undercoat in water dispersion to even out the absorption of substrates before applying other products.

**Mapecoat ACT 021**
Enamel wall paint with high cleanability and resistance to mould for internal surfaces in areas with food and beverages.

**Mapecoat ACT 196**
Highly washable, enamel wall paint with excellent cleanability and resistance to bacteria for internal surfaces in healthcare facilities.
**Quarzolite Base Coat**
Coloured acrylic undercoat with a smooth finish and good filling and adhesion promoting properties, for internal and external surfaces.

ETA 10/0024
ETA 10/0025

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**Quarzolite HF Plus**
Acrylic hygienising paint with granular quartz fillers for internal and external use, durable with filling properties, resistant to mould and algae.

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**Mapecoat W**
Two-component, epoxy paint in water dispersion for protecting cementitious substrates.

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**Mapecoat DW 25**
Two-component epoxy paint for anti-acid and non-toxic coatings on concrete surfaces, suitable for contact with drinking water.

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**Quarzolite Base Coat**
Coloured acrylic undercoat with a smooth finish and good filling and adhesion promoting properties, for internal and external surfaces.

ETA 10/0024
ETA 10/0025

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Acrylic hygienising paint with granular quartz fillers for internal and external use, durable with filling properties, resistant to mould and algae.

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**Quarzolite Base Coat**
Coloured acrylic undercoat with a smooth finish and good filling and adhesion promoting properties, for internal and external surfaces.

ETA 10/0024
ETA 10/0025

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**Quarzolite HF Plus**
Acrylic hygienising paint with granular quartz fillers for internal and external use, durable with filling properties, resistant to mould and algae.
26. WALL PROTECTIVE AND DECORATIVE COATINGS

**Quarzolite Paint**
Acrylic paint with micro-granular quartz with a smooth finish for long-lasting protection of internal and external surfaces.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.55.
- **Dry solids content (EN ISO 3251) (%):** approx. 66.
- **Dilution rate:** 15-20% of water.
- **Recoat time:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² for two coats.
- **Packaging:** 5 and 20 kg.

**Quarzolite Tonachino**
High protection, thick-layered acrylic coating product with high filling properties for internal and external surfaces.

Available in the following granulometries:
- 0.7 mm
- 1.2 mm
- 1.5 mm
- 2.0 mm

**ETA 10/0024**
**ETA 10/0025**

**Quarzolite Tonachino Plus**
Highly protective, mould and mildew-resistant acrylic coating product with high filling properties for internal and external surfaces.

Available in the following granulometries:
- 0.7 mm
- 1.2 mm
- 1.5 mm
- 2.0 mm

**ETA 10/0024**

**Silancolor AC Paint**
Water-repellent acrylic-siloxane paint with high resistance to UV rays for internal and external surfaces.

**TECHNICAL DATA:**
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.55.
- **Dry solids content (EN ISO 3251-1) (%):** approx. 66.
- **Dilution rate:** 10-15% of water.
- **Recoat time:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² for two coats of the product.
- **Packaging:** 20 kg.
Silancolor AC Paint Plus
Acryl-siloxane paint for the hygiene of walls in internal and external applications, water repellent, mould and algae resistant.

Silancolor AC Tonachino
Water-repellent, thick-layered acrylic-siloxane coating with high filling properties for internal and external surfaces. Available in the following granulometries: 1.2 mm.

Silancolor AC Tonachino Plus
Acryl-siloxane plaster for the hygiene of walls in internal and external applications, water repellent, mould and algae resistant. Available in the following grain sizes: 1.2 mm.

Silancolor Base Coat
Water-repellent, coloured siloxane undercoat with a smooth finish and good filling properties for internal and external surfaces.

ETA 10/0024
ETA 10/0025

Silancolor Base Coat

TECHNICAL DATA:
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.58.
- **Dry solids content (EN ISO 3251):** approx. 67.
- **Dilution rate:** supplied ready to use (it can be diluted with 5-10% of water).
- **Recoat time:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.5 kg/m² per coat.
- **Packaging:** 20 kg.

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TECHNICAL DATA:
- **Consistency:** thick liquid.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.55.
- **Dry solids content (EN ISO 3251):** approx. 66.
- **Dilution rate:** 10-15% of water.
- **Recoat time:** 12-24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.4 kg/m² (per two coats).
- **Packaging:** 20 kg.

---

TECHNICAL DATA:
- **Consistency:** paste.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.70.
- **Dry solids content (EN ISO 3251-1) (%)**: approx. 80.
- **Dilution rate:** ready to use.
- **Recoat time:** 12-24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.2 mm: 1.9-2.3 kg/m².
- **Packaging:** 20 kg.

---

TECHNICAL DATA:
- **Consistency:** paste.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.70.
- **Dry solids content (EN ISO 3251):** approx. 80.
- **Dilution rate:** supplied ready to use (it can be diluted with 1-2% of water).
- **Recoat time:** 12-24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** trowel.
- **Consumption:** 1.2 mm: 1.9-2.3 kg/m².
- **Packaging:** 20 kg.

---

TECHNICAL DATA:
- **Consistency:** paste.
- **Colour:** white or various colours using the ColorMap® automatic colouring system.
- **Density (EN ISO 2811-1) (g/cm³):** approx. 1.58.
- **Dry solids content (EN ISO 3251):** approx. 67.
- **Dilution rate:** supplied ready to use (it can be diluted with 5-10% of water).
- **Recoat time:** 24 hours.
- **Application temperature range:** from +5°C to +35°C.
- **Cleaning:** water.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** 0.3-0.5 kg/m² per coat.
- **Packaging:** 20 kg.
**Silancolor Base Coat Plus**
Hygienising siloxane based pigmented base coat, for internal and external application, evens out the surfaces and mould and algae resistant.

**Silancolor Cleaner Plus**
High penetration and mould-and algae resistant hygienising treatment.

**Silancolor Paint**
Transpirant, water-repellent, siloxane paint resistant to aggressive environments for internal and external surfaces.

**Silancolor Paint Plus**
Highly protective transpirant, water-repellent, mildew and mould-resistant, siloxane paint for internal and external surfaces.
### TECHNICAL DATA:
- **Silancolor Primer**
  - Consistency: paste.
  - Colour: milky.
  - Density (EN ISO 2811-1) (g/cm³): approx. 1.01.
  - Dry solids content (EN ISO 3251) (%): approx. 12.
  - Dilution rate: supplied ready to use.
  - Waiting time before applying other products: 12-24 hours.
  - Application temperature range: from +5°C to +35°C.
  - Cleaning: water.
  - Storage: 24 months.
  - Application: roller, brush or spray.
  - Consumption: 0.1-0.15 kg/m².
  - Packaging: 10 kg.

- **Silancolor Tonachino**
  - Consistency: fluid liquid.
  - Colour: milky.
  - Density (EN ISO 2811-1) (g/cm³): approx. 1.01.
  - Dry solids content (EN ISO 3251) (%): approx. 12.
  - Dilution rate: supplied ready to use.
  - Waiting time before applying other products: 12-24 hours.
  - Application temperature range: from +5°C to +35°C.
  - Cleaning: water.
  - Storage: 24 months.
  - Application: roller, brush or spray.
  - Consumption: 0.7 mm: 1.7-2.0 kg/m²;
    - 1.2 mm: 1.9-2.3 kg/m²;
    - 1.5 mm: 2.2-2.6 kg/m²;
    - 2.0 mm: 3.0-3.5 kg/m².
  - Packaging: 20 kg.

- **Silancolor Primer Plus**
  - Highly protective siloxane, mildew and mould-resistant primer.
  - Consistency: fluid liquid.
  - Colour: milky.
  - Density (EN ISO 2811-1) (g/cm³): approx. 1.01.
  - Dry solids content (EN ISO 3251) (%): approx. 12.
  - Dilution rate: supplied ready to use.
  - Waiting time before applying other products: 12-24 hours.
  - Application temperature range: from +5°C to +35°C.
  - Cleaning: water.
  - Storage: 24 months.
  - Application: roller, brush or spray.
  - Consumption: 0.1-0.3 kg/m².
  - Packaging: 2 and 10 kg.

- **Silancolor Tonachino Plus**
  - Highly protective transpirant, water-repellent, thick-layered siloxane coating product with high filling properties for internal and external surfaces.
  - Available in the following granulometries: 0.7 mm, 1.2 mm, 1.5 mm and 2.0 mm.

  - Consistency: paste.
  - Colour: white or various colours using the ColorMap® automatic colouring system.
  - Density (EN ISO 2811-1) (g/cm³): approx. 1.65-1.95 (according to the grain size).
  - Dry solids content (EN ISO 3251) (%): approx. 80.
  - Dilution rate: supplied ready to use (it can be diluted with 1-2% of water).
  - Recoat time: 24 hours.
  - Application temperature range: from +5°C to +35°C.
  - Cleaning: water.
  - Storage: 24 months.
  - Application: roller, brush or spray.
  - Consumption: 0.7 mm: 1.7-2.0 kg/m²;
    - 1.2 mm: 1.9-2.3 kg/m²;
    - 1.5 mm: 2.2-2.6 kg/m²;
    - 2.0 mm: 3.0-3.5 kg/m².
  - Packaging: 20 kg.

---

**Silancolor Transparet**
- Transparant siloxane undercoat with a smooth finish.

**Silancolor Tonachino**
- Transparant, water-repellent, thick-layered siloxane coating product with high filling properties for internal and external surfaces.
  - Available in the following granulometries: 0.7 mm, 1.2 mm, 1.5 mm and 2.0 mm.

**Silancolor Primer**
- Highly protective siloxane, mildew and mould-resistant primer.

**Silancolor Primer Plus**
- Highly protective transparant, water-repellent, thick-layered siloxane coating product with high filling properties for internal and external surfaces.
  - Available in the following granulometries: 0.7 mm, 1.2 mm, 1.5 mm and 2.0 mm.
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>Technical Data</th>
</tr>
</thead>
</table>
| **Silexcolor Base Coat** | Transpirant, coloured silicate undercoat with a smooth finish and good filling properties for internal and external surfaces, according to DIN 18363 Standards. | Consistency: thick liquid.  
Colour: white or various colours using the ColorMap® automatic colouring system.  
Density (EN ISO 2811-1) (g/cm³): approx. 1.60.  
Dry solids content (EN ISO 3251) (%): approx. 67.  
Dilution rate: as is or 5-10% of SILEXCOLOR PRIMER.  
Recoat time: 24 hours.  
Application temperature range: from +8°C to +35°C.  
Cleaning: water.  
Storage: 12 months.  
Application: roller, brush or spray.  
Consumption: 0.3-0.5 kg/m² per coat.  
Packaging: 20 kg. |
| **Silexcolor Marmorino** | Highly-decorative, fine-grained, silicate mineral coating product in paste form with high chemical resistance for internal and external surfaces, according to DIN 18363 Standards. | Consistency: paste.  
Colour: white or various colours using the ColorMap® automatic colouring system.  
Density (EN ISO 2811-1) (g/cm³): approx. 1.61.  
Dry solids content (EN ISO 3251) (%): approx. 67.  
Dilution rate: supplied ready to use.  
Recoat time: 12 hours.  
Application temperature range: from +8°C to +35°C.  
Cleaning: water.  
Storage: 12 months.  
Application: trowel.  
Consumption: 0.8-1.0 kg/m² (according to the type of finish required).  
Packaging: 5 and 20 kg. |
| **Silexcolor Paint** | Highly-transpirant silicate paint with a high chemical bond for internal and external surfaces, according to DIN 18363 Standards. | Consistency: thick liquid.  
Colour: white or various colours using the ColorMap® automatic colouring system.  
Density (EN ISO 2811-1) (g/cm³): approx. 1.46.  
Dry solids content (EN ISO 3251) (%): approx. 55.  
Dilution rate: 20% of SILEXCOLOR PRIMER.  
Recoat time: 24 hours.  
Application temperature range: from +8°C to +35°C.  
Cleaning: water.  
Storage: 12 months.  
Application: roller, brush or spray.  
Consumption: 0.35-0.45 kg/m² for two coats.  
Packaging: 20 kg. |
| **Silexcolor Primer** | Highly breathable silicate primer compliant with DIN 18363 standards. | Consistency: fluid liquid.  
Colour: transparent.  
Density (EN ISO 2811-1) (g/cm³): approx. 1.1.  
Dry solids content (EN ISO I3251) (%): approx. 17.  
Dilution rate: supplied ready to use.  
Waiting time before applying other products: 12-24 hours.  
Application temperature range: from +8°C to +35°C.  
Cleaning: water.  
Storage: 12 months.  
Application: roller, brush or spray.  
Consumption: 0.1-0.15 kg/m².  
Packaging: 10 kg. |
Silexcolor Tonachino
Highly transpirant, thick-layered silicate coating product with high filling properties for internal and external surfaces in compliance with DIN 18363. Available in the following granulometries: 0.7 mm, 1.2 mm, 1.5 mm and 2.0 mm.

ETA 04/0061
ETA 10/0024
ETA 10/0025

TECHNICAL DATA:
Consistency: paste.
Colour: white or various colours using the ColorMap® automatic colouring system.
Density (EN ISO 2811-1) (g/cm³): approx. 1.65-1.95 (according to the grain size).
Dry solids content (EN ISO 3251) (%): approx. 80.
Dilution rate: supplied ready to use (it can be diluted with 3-5% of SILEXCOLOR PRIMER).
Recoat time: 24 hours.
Application temperature range: from +8°C to +35°C.
Cleaning: water.
Storage: 12 months.
Application: trowel.
Consumption:
- 0.7 mm: 1.7-2.0 kg/m²;
- 1.2 mm: 1.9-2.3 kg/m²;
- 1.5 mm: 2.2-2.6 kg/m²;
- 2.0 mm: 3.0-3.5 kg/m².
Packaging: 20 kg.
WATERPROOFING SYSTEMS
27. WATERPROOFING SYSTEMS

27.1 Waterproofing structures below ground level

**Idrosilex**
Bulk powder or liquid water-repellent for cementitious mortar.

**Lamposilex**
Ultra quick-setting and hardening hydraulic binder for blocking seeping water.

**Mapegel 50**
Three-component hydrophilic gel for consolidating the ground and for injecting concrete barriers.

**Mapei Waterproofer**
Waterproofing agent for render and normal-setting waterproofing mixes.

---

**TECHNICAL DATA:**

**Idrosilex**
- Consistency: powder or liquid.
- Pot life of mix: approximately 1 hour.
- Storage: 12 months.
- Consumption:
  - IDROSILEX LIQUID: 3-5 kg/m² every 100 kg of cement.
  - IDROSILEX POWDER: 2-4 kg/m² every 100 kg of cement.
- Packaging:
  - IDROSILEX LIQUID: 6 and 25 kg drums; 12x1 kg boxes.
  - IDROSILEX POWDER: boxes of 25x1 kg.

**Lamposilex**
- Consistency: fine powder.
- Workability time at +20°C: approximately 1 minute.
- Storage: 12 months.
- Mixing ratio: 100 g of LAMPOSILEX with 28 g of water.
- Minimum application temperature: +5°C.
- Consumption: 1.8 kg/dm³ of cavities to be filled.
- Packaging: 5 kg drums.

**Mapegel 50**
- Consistency: comp A (liquid), comp B (liquid), comp C (solid).
- Viscosity of mix (mPa·s): < 5.
- Storage: 12 months at a temperature of between +10°C and +30°C.
- Mixing ratio: comp A : (comp B/water) : comp C (weight) = 20 : (1/20) : 0.3.
- Consumption: approximately 1 kg/l (of cavities to be filled).
- Packaging: 21.3 kg kits:
  - comp A 20 kg;
  - comp B 1 kg;
  - comp C 0.3 kg.

**Mapei Waterproofer**
- Consistency: thick liquid.
- Colour of mix: white.
- Application temperature: +5°C to +35°C.
- Dosage: 3% by weight of mix.
- Packaging: 5 kg drums.
**Mapelastic Foundation**

Two-component, flexible cementitious mortar for waterproofing concrete surfaces subject to negative and positive hydraulic lift.

**TECHNICAL DATA:**
- Consistency: thixotropic.
- Pot life of mix: approximately 1 hour (at +20°C).
- Application temperature range: from +5°C to +40°C.
- Minimum applicable thickness: 2 mm in 2 coats.
- Classification: EN 1504-2 - coating (C) principles PI, MC and IR and EN 14891 norm.
- EMICODE: EC1R Plus - very low emission.
- Storage: 12 months.
- Application: roller or spray.
- Consumption:
  - by roller: 1.65 kg/m² per mm of thickness;
  - by spray: 2.2 kg/m² per mm of thickness.
- Packaging:
  - component A: 22 kg bags;
  - component B: 10 kg tanks.

---

**Mapeproof**

Bentonite waterproofing sheets for structures below ground level, suitable for both horizontal and vertical surfaces.

**TECHNICAL DATA:**
- Lower layer of geo-textile fabric: polypropylene fabric, 140 g/m².
- Layer of bentonite: natural sodium.
- Aeric mass of bentonite (EN 14196) (12% humidity): 5.1 kg/m².
- Swelling index (ASTM D 5890): 28 ml/g.
- Coefficient of permeability (ASTM D 5887): < 1E-11 m/s.
- Static perforation (EN ISO 12236): 2400 N.
- Longitudinal tensile strength (EN ISO 10319): 14.0 kN/m.
- Transversal tensile strength (EN ISO 10319): 14.0 kN/m.
- Peeling (ASTM D 6496): 600 N/m.
- Bond strength to concrete (ASTM D 903): 3.5 N/mm.
- Thickness of product (EN 964-1): 6.5 mm.
- Seal of overlaps: the geo-composite product is self-sealing.
- Packaging:
  - 1.1 m x 5 m rolls;
  - 2.5 m x 22.5 m rolls;
  - 5 m x 40 m rolls.

---

**Mapeproof BA Tape**

Watertight, doublesided adhesive sheet membrane which are placed along fillet joints between horizontal and vertical surfaces in MAPEPROOF FBT waterproofing systems.

**TECHNICAL DATA:**
- Width: 330 mm.
- Thickness: 1.75 mm.
- Weight: ≥ 1.70 kg/m².
- Storage: 12 months.
- Packaging: 20 m rolls.

---

**Mapeproof CD**

Washers used to fasten MAPEPROOF bentonite sheets in place.

**TECHNICAL DATA:**
- Packaging: boxes of 500 pieces.
27. WATERPROOFING SYSTEMS

**Mapeproof FBT**


**TECHNICAL DATA:**
- **Width:** 1000 mm.
- **Thickness:** 1.7 mm.
- **Weight:** ≥ 1.3 kg/m².
- **Water tightness (no lateral migration) according to ASTM D 5385 mod. (bar):** ≥ 7.
- **Storage:** 24 months.
- **Packaging:** pallets with 15 rolls (20 x 1 m).

---

**Mapeproof FBT Tape**

Adhesive tape to form sealed joints over the top of adjacent sheets of MAPEPROOF FBT SYSTEM.

**TECHNICAL DATA:**
- **Width:** 150 mm.
- **Thickness:** 1.2 mm.
- **Weight:** ≥ 1.15 kg/m².
- **Storage:** 12 months.
- **Packaging:** 20 m² rolls.

---

**Mapeproof Fix Tape**

Double-sided adhesive tape to hold sheets of MAPEPROOF FTB in place during installation.

**TECHNICAL DATA:**
- **Width:** 200 mm.
- **Thickness:** 0.61 mm.
- **Weight:** ≥ 0.67 kg/m².
- **Storage:** 12 months.
- **Packaging:** 25 m rolls.

---

**Mapeproof LW**

Bentonite waterproofing sheets for use on horizontal and vertical structures below ground level with a maximum water table of 5 metres.

**TECHNICAL DATA:**
- **Lower layer of geo-textile fabric:** polypropylene fabric, 120 g/m².
- **Upper layer of geo-textile fabric:** non-woven polypropylene fabric, 220 g/m².
- **Layer of bentonite:** natural sodium.
- **Aeric mass of bentonite (EN 14196) (12% humidity):** 4.1 kg/m².
- **Swelling index (ASTM D 5890):** 28 ml/2 g.
- **Coefficient of permeability (ASTM D 5887):** < 1E-11 m/s.
- **Static perforation (EN ISO 10319):** 2000 N.
- **Longitudinal tensile strength (EN ISO 10319):** 12.0 kN/m.
- **Transversal tensile strength (EN ISO 10319):** 12.0 kN/m.
- **Peeling (ASTM D 6496):** 600 N/m.
- **Bond strength to concrete (ASTM D 903):** 2.8 N/mm.
- **Thickness of product (EN 964-1):** 6.0 mm.
- **Seal of overlaps:** the geo-composite product is self-sealing.
- **Packaging:**
  - 2.5 m x 22.5 m rolls;
  - 5 m x 40 m rolls.
**Mapeproof Mastic**
Bentonite paste made from natural sodium bentonite and plasticising additives for sealing elements which pass through surfaces.

**TECHNICAL DATA:**
- **Composition:**
  - > 95% montmorillonite (XRD):
  - > 27 ml/2 g. Fluid loss (ASTM D 5891):
  - > 400 mg/g. Absorption of methylene blue:
  - > 550%. Liquidity limit (UNI 10040):
  - > 750%. Water absorption (ASTM E 946/43):
  - 1500/1000 Marsh viscosity:
  - 9.
- **Packaging:** 25 kg paper bags.

---

**Mapeproof SA Tape**
Adhesive tape to form sealed joints under adjacent sheets of MAPEPROOF FBT SYSTEM.

**TECHNICAL DATA:**
- **Width:** 200 mm.
- **Thickness:** 0.48 mm.
- **Weight:** 0.48 kg/m².
- **Storage:** 12 months.
- **Packaging:** 20 m rolls.

---

**Mapeproof Seal**
Natural sodium bentonite in powder form for localised strengthening of waterproofing layers made using MAPEPROOF bentonite sheets.

**TECHNICAL DATA:**
- **Montmorillonite (XRD):** > 95%.
- **Free swelling (ASTM D 5890):** > 27 ml/2 g.
- **Fluid loss (ASTM D 5891):** < 18 ml.
- **Absorption of methylene blue:** > 400 mg/g.
- **Liquidity limit (UNI 10040):** > 750%.
- **Water absorption (ASTM E 946/43):** > 750%.
- **1500/1000 Marsh viscosity:** 38-40°.
- **pH of filtered water:** 9.
- **Packaging:** 25 kg paper bags.

---

**Mapeproof SW**
Bentonite sheet for waterproofing structures below ground level where saline water is present.

**TECHNICAL DATA:**
- **Lower layer:** polypropylene fabric.
- **Upper layer:** non-woven polypropylene fabric.
- **Layer of bentonite:** natural sodium bentonite admixed with polymers resistant to contaminants.
- **Areal density (EN 14196) (12% humidity):** 5.3 kg/m².
- **Swelling index (ASTM D 5887):** 28 ml/2 g.
- **Hydraulic conductivity (ASTM D 5887):** 1E-11 m/s.
- **Static puncture resistance (EN 12236):** 2.4 kN.
- **Longitudinal tensile strength (EN ISO 10319):** 14.0 kN/m.
- **Transversal tensile strength (EN ISO 10319):** 14.0 kN/m.
- **Peeling (ASTM D6496):** 625 kN.
- **Adhesion to concrete (ASTM D 903):** 3.1 N/mm.
- **Thickness of product (EN ISO 9863-1):** 6.5 mm.
- **Packaging:** 5 m wide x 40 m long rolls.
27. WATERPROOFING SYSTEMS

**Mapeproof Swell**

Hydro-expansive, rubber-based hydrophilic sealant paste in tubes, applied using an extrusion pistol.

**Mapethene HT**

Self-adhesive bitumen waterproofing membrane for underground structures suitable for application at temperatures up to +45°C.

**Mapethene LT**

Self-adhesive bitumen waterproofing membrane for underground structures suitable for application at temperatures down to -5°C.

**Mapethene Primer**

Solvent-free bitumen primer for membranes from the MAPETHENE line.

---

**TECHNICAL DATA:**

**Consistency:** thixotropic paste.

**Solubility:** non-soluble in water.

**Dry solids content:** 90%.

**Storage:** 12 months.

**Application temperature range:** from +5°C to +40°C.

**Volumetric expansion in water:** minimum 100%.

**Formation of skin:** 180-200 min.

**Polymerisation time:** 2 mm every 9 hours.

**Consumption:** approximately 320 ml every 3 metres.

**Shore A hardness (DIN 53505):** 32.

**Elongation (DIN 53504):** > 700%.

**Ultimate strength (DIN 53504):** 2.5 N/mm².

**Modulus of elasticity at 100% elongation (DIN 53504):** 0.55 N/mm².

**Tear strength (ISO 34-1):** 10 N/mm.

**Water-tightness:** 1 atm.

**Packaging:** boxes containing 6 320 ml cartridges.

---

**EN 13969**

**EN 14967**

**Mapeproof Swell**

Hydro-expansive, rubber-based hydrophilic sealant paste in tubes, applied using an extrusion pistol.

**Mapethene HT**

Self-adhesive bitumen waterproofing membrane for underground structures suitable for application at temperatures up to +45°C.

**Mapethene LT**

Self-adhesive bitumen waterproofing membrane for underground structures suitable for application at temperatures down to -5°C.

**Mapethene Primer**

Solvent-free bitumen primer for membranes from the MAPETHENE line.

---

**TECHNICAL DATA:**

**Consistency:** fluid.

**Colour:** black.

**Density (kg/m³):** 1.00.

**Dry solids content (%):** 42.

**Viscosity (mPa·s):** 12,000 (ago 5, 20 RPM).

**Application temperature:** from -5°C to +40°C.

**Drying time (min):** approx. 45.

**Consumption:** 0.1-0.2 kg/m².

**Packaging:** 10 kg drums.
**Mapethene Primer W**
One-component primer for membranes from the MAPETHENE line applied at low temperatures.

**TECHNICAL DATA:**
- **Consistency:** fluid.
- **Colour:** black.
- **Density (kg/m³):** 1.00.
- **Dry solids content (%):** 49.
- **Viscosity (mPa·s):** 12.000 (ago 5, 20 RPM).
- **Application temperature:** from -5°C to +40°C.
- **Drying time (min):** approx. 45.
- **Consumption:** 0.1-0.15 kg/m².
- **Packaging:** 10 kg drums.

**Planiseal 88** *(former Idrosilex Pronto)*
Osmotic cementitious mortar suitable for waterproofing masonry and concrete structures.

**TECHNICAL DATA:**
- **Consistency:** powder.
- **Pot life of mix:** approx. 1 h.
- **Classification:** EN 1504-2.
- **Storage:** 12 months.
- **Consumption:** 1.5 kg/m² per mm of thickness.
- **Packaging:** 25 kg bags.

**Planiseal 288**
Two-component cementitious mortar for waterproofing structures below ground level and storage tanks.

**TECHNICAL DATA:**
- **Consistency:** fluid; applicable by brush.
- **Colour:** grey or white.
- **Pot life of mix:** approx. 1 h (at +20°C).
- **Application temperature:** +5°C to +35°C.
- **Minimum applicable thickness:** 2 mm in 2 coats.
- **Classification:** EN 1504-2 - coating (C) principles MC and IR.
- **Storage:** comp. A 12 months, comp. B 24 months.
- **Application:** spreader, brush or roller.
- **Consumption:** approx. 1.9 kg/m².
- **Packaging:** 25 kg unit:
  - component A: 20 kg bag;
  - component B: 5 kg can.

**Plastimul**
Bitumen waterproofing emulsion for general purpose use.

**TECHNICAL DATA:**
- **Consistency:** thick paste.
- **Density:** 1.2 g/cm³.
- **pH:** 10.
- **Dry solids content:** approx. 76%.
- **Storage:** 12 months.
- **Minimum application temperature:** +5°C.
- **Consumption:** approx. 1.7 kg/m² per mm of dry product depending on the substrate.
- **Packaging:** 12 and 30 kg drums.
27. WATERPROOFING SYSTEMS

**Plastimul 1K Super Plus**
One-component, solvent-free, quick-drying, low-shrinkage, high-yield, high flexibility bitumen waterproofing emulsion containing polystyrene spheres and rubber granules.

**Plastimul 2K Plus**
Two-component, solvent-free, quick-drying, low-shrinkage, high flexibility bitumen waterproofing emulsion containing cellulose fibres.

**Plastimul 2K Reactive**
Two-component, solvent-free, eco-compatible, with high elasticity, instant bitumen waterproofing emulsion, applied by airless spray.

**Plastimul 2K Super**
Two-component, solvent-free, low-shrinkage, high yield, high-flexibility bitumen waterproofing emulsion containing polystyrene spheres.
**Plastimul 1K-M**
One-component, ultra-fluid polyurethane resin applied by injection for waterproofing structures and ground and rocks subject to intense percolating water. The reaction time may be regulated.

**Plastimul C**
Solvent-free concentrated bitumen emulsion for treating substrates before applying waterproofing products from the PLASTIMUL line.

**Plastimul Primer**
Solvent-free, bitumen primer for treating substrates before applying waterproofing products from the PLASTIMUL range.

**Plastimul Primer SB**
High-performance rapid-drying solvent-based bituminous primer for treating concrete surfaces before applying PLASTIMUL 2K REACTIVE.

**Resfoam 1K-M**
Mixing ratio: resin: catalyst = 1: 0.1-0.2 by weight.
Storage: 6 months.
Application: injection.
Consumption: in the open air, a mixture of 1 kg of RESFOAM 1K-M (resin) + 0.1 kg of RESFOAM 1K-M AKS (catalyst) forms 50 litres of foam upon contact with 0.1 litre of water.
Packaging:
- RESFOAM 1K-M (resin): 20 kg plastic drums.
- RESFOAM 1K-M AKS (catalyst): 1 kg plastic drums.
### 27. WATERPROOFING SYSTEMS

#### 27.2 Waterproofing structures above ground level

**Additix P**
Thixotropising agent for PURTOP EASY.

**Aquaflex**
Liquid membrane used to form a permanent shell around asbestos cement and for forming waterproof membranes on mineral-based substrates.

**Aquaflex Roof**
Ready-to-use flexible liquid membrane with fibres for continuous waterproofing layers on exposed external surfaces.

**Aquaflex Roof HR**
Fibre-filled liquid membrane in water emulsion with high solar reflectance and thermal emittance with a solar reflectance index (SRI) of 105.

---

**TECHNICAL DATA:**
- **Consistency:** paste.
- **Colour:** white, red and grey.
- **Specific gravity:** 1.4 g/cm³.
- **Dry solids content:** 70%.
- **Waiting time between each coat:** from 2 to 12 hours.
- **Application temperature range:** from +5°C to +40°C.
- **Storage:** 24 months.
- **Application:** roller, brush, trowel or spray.
- **Consumption:** approx. 0.7 kg/m² for each coat, which corresponds to a wet thickness of 0.5 mm (final dry thickness 0.35 mm).
- **Packaging:** 5 and 20 kg.

---

**TECHNICAL DATA:**
- **Consistency:** paste.
- **Colours:** white, grey, brick red, oxide red, green, RAL 6005, RAL 7013 and RAL 9005.
- **Specific gravity:** 1.4 g/cm³.
- **Dry solids content:** 70%.
- **Waiting time between each coat:** from 2 to 12 hours.
- **Application temperature range:** from +5°C to +40°C.
- **Storage:** 24 months.
- **Application:** roller, brush or trowel.
- **Consumption:** approx. 0.9 kg/m² for each coat, which corresponds to a wet thickness of 0.5 mm (final dry thickness 0.35 mm).
- **Packaging:** 5 and 20 kg.

---

**TECHNICAL DATA:**
- **Consistency:** paste.
- **Colour:** yellowing.
- **Consumption:** 0.9 every 25 kg of PURTOP EASY.
- **Storage:** 12 months.
- **Packaging:** 0.9 kg.
Aquaflex Roof Plus
Ready-mixed, high-elasticity, quick-drying, UV-resistant liquid waterproofing membrane.

TECHNICAL DATA:
Consistency: paste.
Colour: highly reflective white, grey, terracotta, green.
Density (g/cm³): 1.25.
Dry solids content (%): 66.
Application temperature: +5°C to +35°C.
Service temperature: -5°C to +80°C (without reinforcement); -10°C to +80°C (with MAPETEX 50).
Consumption:
- 0.9 kg/m² (used as protective finish or reflective coating over existing bitumen membranes);
- 2 kg/m² (used as waterproofing membrane).
Packaging: 5 and 20 kg drums.

Aquaflex Roof Premium
Ready-mixed, water-based, VOC-free polyurethane waterproof membrane resistant to foot traffic and standing water.

TECHNICAL DATA:
Consistency: paste.
Colour: high-reflectance white, RAL 7038 grey, RAL 7039, 2500 N grey and terracotta.
Density (g/cm³): 1.25.
Dry solids content (%): 60.
Application temperature: from +5°C to +35°C.
Consumption: protective finish or reflective coating on an old bitumen membrane: 0.9-1 kg/m²
Waterproof membrane: 1.5-2 kg/m².
Packaging: 5 and 20 kg drums.

Drain Front
TPE angular pipe union for terraces and balconies.

TECHNICAL DATA:
Colour: ivory and copper.
Packaging: boxes of 5 pieces.

Drain Vertical/Drain Lateral
Kit for installing floor drains, ideal for draining off water from terraces, balconies, bathrooms, boiler rooms, wash-rooms, etc.

TECHNICAL DATA:
Diameter: 50, 70 and 100 mm.
Packaging: 1 kg kits including:
- vertical or lateral polypropylene drain-pipe available in 3 diameters (50, 75 and 90 mm) for DRAIN LATERAL and 5 diameters (50-75-82-90-100 mm) for DRAIN VERTICAL, with a welded 400x400 mm polypropylene drain-cover;
- telescopic extension;
- "anti-odour" plug;
- removable stainless steel grate.
**Isamite**
Bitumen paint in solvent.

**Mapecoat PU 20 N**
Two-component coloured aliphatic polyurethane topcoat for membranes from the PURTOP line.

**Mapecoat PU 25**
Two-component coloured aliphatic polyurethane topcoat for membranes from the PURTOP line when used in swimming pools or decorative ponds.

---

**TECHNICAL DATA:**
- **Consistency:** fluid.
- **Colour:** black.
- **Density (g/cm³):** 100.
- **Dry solids content (%):** approx. 50.
- **Dust dry:** 15-20 minutes.
- **Consumption:**
  - 100-150 g/m² per coat on metal and non-absorbent surfaces;
  - 250-300 g/m² per coat on concrete and wood.
- **Packaging:** 10 kg (ADR approved packing).

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**Mapecoat Filler**
Micrometric filler material in polyamide used to create surfaces with a non-slip finish.

**TECHNICAL DATA:**
- **Consistency:** powder.
- **Colour:** white.
- **Storage:** 24 months.
- **Packaging:** 2 kg.

---

**Isamite**
Bitumen paint in solvent.

**Mapecoat PU 20 N**
Two-component coloured aliphatic polyurethane topcoat for membranes from the PURTOP line.

**Mapecoat PU 25**
Two-component coloured aliphatic polyurethane topcoat for membranes from the PURTOP line when used in swimming pools or decorative ponds.

---

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** according to RAL colour available.
- **Mixing ratio A/B (by weight):** 4.3 : 0.7.
- **Pot life of the mix:** 60 minutes at +23°C.
- **Consumption:** approx. 0.15-0.2 kg/m².
- **Storage:** 12 months.
- **Packaging:**
  - 20 kg (A+B), comp. A 17.2 kg and comp. B 2.8 kg;
  - 5 kg (A+B), comp. A 4.3 kg and comp. B 0.8 kg.
**Mapecoat TC**
Wear-resistant coloured aliphatic polyurethane finish for membranes from the PURTOP line.

**Technical Data:**
- **Mixing ratio:** 100:20.
- **Colour of the mix:** RAL 5014, RAL 6002, RAL 7001, RAL 7004, RAL 7016, RAL 7032, RAL 7035, RAL 7037.
- **Density of mix:** 1.25 g/cm³.
- **Application temperature:** +5°C to +35°C.
- **Consumption:** 0.6-0.8 kg/m² (two coats of product).
- **Packaging:** 18 kg kit (A: 15 kg, B: 3 kg).

**Mapecoat EPX/ Mapecoat EPX-T**
Two-component epoxy-polyurethane resin used to form flexible waterproof and chemical-resistant coats before bonding ceramic.

**Technical Data:**
- **Consistency:** creamy paste.
- **Density:** 1,400 kg/m³.
- **Application temperature range:** from +10°C to +30°C.
- **Temperature when in use:** from -30°C to +80°C.
- **Set to light for traffic:** after 24 hours.
- **Ready for use:** after 3 days.
- **Storage:** 24 months in original packaging in a dry place.
- **Consumption:** 1.4 kg/m² per mm of thickness.
- **Packaging:** comp. A 8.7 kg; comp. B 1.3 kg.

**Mapecoat WP 200**
Alkali-resistant waterproofing and anti-fracture membrane for internal use; suitable for overlaying with ceramic, natural stone and LVT floors.

**Technical Data:**
- **Material:** product made up of three layers of polypropylene/polyethylene.
- **Colour:** blue.
- **Thickness of membrane (mm):** > 200 µm.
- **Size:** 30 m x 1 metre and 5 m x 1 metre rolls.

**Mapecoat WP Adhesive**
Two-component, rapid-drying, elastic cementitious adhesive for bonding and sealing overlaid MAPEGUARD WP 200 and relative special pieces.

**Technical Data:**
- **Colour of mix:** brown.
- **Mixing ratio:** comp. A : comp. B = 1 : 0.9.
- **Pot life of mix:** more than 45 minutes.
- **EMICODE:** EC1 Plus - very low emission.
- **Storage:** comp. A 12 months, comp. B 24 months.
- **Packaging:** 6.65 kg kit (component A 3.5 kg + component B 3.15 kg).

**Mapecoat EPX/ Mapecoat EPX-T**
Two-component epoxy-polyurethane resin used to form flexible waterproof and chemical-resistant coats before bonding ceramic.

**Technical Data:**
- **Consistency:** creamy paste.
- **Density:** 1,400 kg/m³.
- **Application temperature range:** from +10°C to +30°C.
- **Temperature when in use:** from -30°C to +80°C.
- **Set to light for traffic:** after 24 hours.
- **Ready for use:** after 3 days.
- **Storage:** 24 months in original packaging in a dry place.
- **Consumption:** 1.4 kg/m² per mm of thickness.
- **Packaging:** comp. A 8.7 kg; comp. B 1.3 kg.
**Mapegum WPS**
Quick-drying flexible liquid membrane for waterproofing internal surfaces.

**Mapelastic**
Two-component, flexible cementitious mortar for waterproofing balconies, terraces, bathrooms and swimming pools.

**Mapelastic AquaDefense**
Ready-to-use, ultra quick-drying, flexible liquid membrane for waterproofing internal and external surfaces.

**Mapelastic Smart**
Two-component, high-flexibility cementitious mortar (with crack-bridging > 2 mm), applied by trowel or with a roller, for waterproofing balconies, terraces, bathrooms and swimming pools.

**Mapegum WPS**  
**TECHNICAL DATA:**
- Consistency: paste.  
- Density of the mix: 1.45 g/cm³.  
- pH: 9.  
- Dry solids content: 73%.  
- Storage: 24 months.  
- Minimum filming temperature: +5°C.  
- Application temperature range: from +5°C to +35°C.  
- Time for complete drying of a 2 mm thick layer: 5 hours at +23°C.  
- Time for complete drying of a 2 mm thick layer: 12 hours at +5°C.  
- EMICODE: EC1 Plus - very low emission.  
- Consumption: 1.5 kg/m² per mm of thickness.  
- Packaging: 5, 10 and 25 kg drums.

**Mapelastic**  
**TECHNICAL DATA:**
- Consistency of mix: plastic-trowable.  
- Pot life of mix: approximately 1 hour.  
- Application temperature range: from +5°C to +35°C.  
- Minimum applicable thickness: 0.8 mm in 2 coats.  
- Classification: EN 1504-2 - coating (C) principles PI, MC and IR and EN 14891 norm.  
- EMICODE: EC1 Plus - very low emission.  
- Storage: 24 months.  
- Application: trowel or by spray.  
- Consumption:  
  - trowel: 1.7 kg/m² per mm of thickness;  
  - spray: 2.2 kg/m² per mm of thickness.  
- Packaging:  
  - 32 kg units: 24 kg bags + 8 kg tanks;  
  - 16 kg units: 2x6 kg sachets + 4 kg tanks.

**Mapelastic AquaDefense**  
**TECHNICAL DATA:**
- Consistency: paste.  
- Application temperature range: from +5°C to +35°C at +23°C and 50% R.H..  
- Waiting time between first and second coat: approximately 1 hour (at +23°C and 50% R.H.).  
- Waiting time before laying coating: 3-4 hours (at +23°C and 50% R.H.). Times refer to +23°C and 50% relative humidity of the air when the product is applied on dried screeds with a residual moisture lower than 3%.  
- Minimum applicable thickness: 0.8 mm in 2 coats.  
- Storage: 24 months.  
- Application: roller, brush or trowel.  
- Consumption: 1.3 kg/m² per mm of thickness.  
- Packaging: 7.5 kg and 15 kg drums.

**Mapelastic Smart**  
**TECHNICAL DATA:**
- Consistency of mix: fluid-brushable.  
- Pot life of mix: approximately 1 hour.  
- Application temperature range: from +5°C to +40°C.  
- Minimum applicable thickness: 2 mm in 2 coats.  
- Classification: EN 1504-2 - coating (C) principles PI, MC and IR and EN 14891 norm.  
- EMICODE: EC1 Plus - very low emission.  
- Storage: 12 months.  
- Application: brush, roller or spray.  
- Consumption:  
  - trowel or roller: 1.6 kg/m² per mm of thickness;  
  - spray: 2.2 kg/m² per mm of thickness.  
- Packaging: 30 kg units: 20 kg bags + 10 kg tanks.
### Mapetex 50
Non-woven polypropylene fabric (weight 50 g/m²) for reinforcing waterproof membranes.

<table>
<thead>
<tr>
<th>TECHNICAL DATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong> black non-woven fabric.</td>
</tr>
<tr>
<td><strong>Weight:</strong> 50 g/m².</td>
</tr>
<tr>
<td><strong>Tensile strength:</strong></td>
</tr>
<tr>
<td>– 70 N (lengthways);</td>
</tr>
<tr>
<td>– 60 N (widthways).</td>
</tr>
<tr>
<td><strong>Elongation at failure:</strong></td>
</tr>
<tr>
<td>– &gt; 95% (lengthways);</td>
</tr>
<tr>
<td>– &gt; 95% (widthways).</td>
</tr>
<tr>
<td><strong>Packaging:</strong> 25 m x 100 cm and 25 m x 20 cm wide rolls.</td>
</tr>
</tbody>
</table>

### Mapenet 150
Alkali-resistant glass fibre mesh (in compliance with the ETAG 004 guide) for reinforcing protective waterproofing layers, anti-fracture membranes and thermal insulation systems.

<table>
<thead>
<tr>
<th>TECHNICAL DATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Colour:</strong> blue.</td>
</tr>
<tr>
<td><strong>Weight:</strong> 150 g/m² ± 5%.</td>
</tr>
<tr>
<td><strong>Mesh size:</strong> 4x4.5 mm.</td>
</tr>
<tr>
<td><strong>Storage:</strong> unlimited.</td>
</tr>
<tr>
<td><strong>Packaging:</strong> 50 m x 1 m rolls.</td>
</tr>
</tbody>
</table>

### MapeSlope
One-component cementitious levelling mortar for building up slopes on roofs over new and old waterproof sheaths.

<table>
<thead>
<tr>
<th>TECHNICAL DATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consistency:</strong> fluid.</td>
</tr>
<tr>
<td><strong>Mixing ratio:</strong> comp. A : comp. B = 1 : 0.8.</td>
</tr>
<tr>
<td><strong>Pot life of mix:</strong> more than 45 mins.</td>
</tr>
<tr>
<td><strong>Application temperature:</strong> from +5°C to +35°C.</td>
</tr>
<tr>
<td><strong>Minimum applicable thickness:</strong> 2 mm in two coats with reinforcement embedded between the two layers.</td>
</tr>
<tr>
<td><strong>Classification:</strong> EN 1504-2 - coating (C) principles PI, MC and IR, produced in compliance with EN 14891 norm.</td>
</tr>
<tr>
<td><strong>EMICODE:</strong> EC1 Plus - very low emission.</td>
</tr>
<tr>
<td><strong>Storage:</strong> 12 months component A, 24 months component B.</td>
</tr>
<tr>
<td><strong>Application:</strong> trowel.</td>
</tr>
<tr>
<td><strong>Consumption:</strong> approx. 2.4 kg/m² for two coats of product with reinforcement embedded between the two layers.</td>
</tr>
<tr>
<td><strong>Packaging:</strong> 36 kg kit: 20 kg bags + 16 kg tanks, 18 kg kit: 10 kg bags + 8 kg tanks.</td>
</tr>
</tbody>
</table>

### Mapelastic Turbo
Two-component rapid-drying elastic cementitious mortar for waterproofing terraces and balconies, including at low temperatures and on substrates not completely dry.

<table>
<thead>
<tr>
<th>TECHNICAL DATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consistency of mix:</strong> fluid.</td>
</tr>
<tr>
<td><strong>Mixing ratio:</strong> comp. A : comp. B = 1 : 0.8.</td>
</tr>
<tr>
<td><strong>Pot life of mix:</strong> more than 45 mins.</td>
</tr>
<tr>
<td><strong>Application temperature:</strong> from +5°C to +35°C.</td>
</tr>
<tr>
<td><strong>Minimum applicable thickness:</strong> 2 mm in two coats with reinforcement embedded between the two layers.</td>
</tr>
<tr>
<td><strong>Classification:</strong> EN 1504-2 - coating (C) principles PI, MC and IR, produced in compliance with EN 14891 norm.</td>
</tr>
<tr>
<td><strong>EMICODE:</strong> EC1 Plus - very low emission.</td>
</tr>
<tr>
<td><strong>Storage:</strong> 12 months component A, 24 months component B.</td>
</tr>
<tr>
<td><strong>Application:</strong> trowel.</td>
</tr>
<tr>
<td><strong>Consumption:</strong> approx. 2.4 kg/m² for two coats of product with reinforcement embedded between the two layers.</td>
</tr>
<tr>
<td><strong>Packaging:</strong> 36 kg kit: 20 kg bags + 16 kg tanks, 18 kg kit: 10 kg bags + 8 kg tanks.</td>
</tr>
</tbody>
</table>
**Monolastic**

One-component cementitious waterproofing mortar.

**TECHNICAL DATA:**
- Consistency of mix: plastic-trowable.
- Classification: EN 14891.
- Storage: 12 months.
- Mixing water: 27-29%.
- Pot life of mix: approximately 1 hour.
- Application temperature range: from +5°C to +35°C.
- Minimum thickness per coat: 1 mm.
- Maximum thickness per coat: 2 mm.
- Consumption: 1.1 kg/m² per mm of thickness.
- Packaging: 20 kg vacuum-packed polyethylene bags.

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**Mapetex Sel**

Macro-holed, non-woven polypropylene fabric for reinforcing waterproofing membranes.

**TECHNICAL DATA:**
- Weight: 80 g/m².
- Thickness: 0.6 mm.
- Tensile strength: 5 kN/m.
- Deformation at maximum strain:
  - 80% in a longitudinal direction;
  - 45% in a transversal direction.
- Packaging: 25 m x 1 m rolls.

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**Mapetex FG**

Glass fiber reinforcing mat for PURTOP EASY.

**TECHNICAL DATA:**
- Appearance: glass fiber reinforcing mat with random fiber orientation.
- Colour: off-white.
- Storage: 24 months.
- Packaging: 50 x 1 m rolls.

---

**Primer BI**

Synthetic resin primer in solvents, specifically developed for improving adhesion of polyurethane coating products (from the PURTOP range) on existing bituminous membranes.

**TECHNICAL DATA:**
- Colour: transparent.
- Consistency: fluid liquid.
- Density: 0.96 g/cm³.
- Dry solids content (%): 10.
- Storage: 24 months in its original sealed packaging.
- Application temperature range: from +5°C to +35°C.
- Ready for painting over: 2-4 hours.
- Drying time: 5-6 hours at +20°C.
- Consumption: 0.20 kg/m² per coat, depending on the type of the substrates.
- Packaging: 10 kg.

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**LIQUID-APPLIED WATER IMPERMEABLE PRODUCTS**

**EN 14891**

**CMO1P**

**IN COMPLIANCE WITH EUROPEAN STANDARD EN 14891**
**Primer P1**
One-component solvent-based primer for polyurea coatings (from the PURTOP line) on plastic surfaces such as PVC.

**Primer for Aquaflex**
Synthetic resin primer in solvent, specifically formulated for bitumen surfaces in asbestos cement and surfaces with unknown adherence properties.

**Primer EP 100W**
Two-component solvent-free water-based epoxy primer for non-absorbent substrates.

**Primer EP4 Fast**
Two-component solvent-free epoxy primer for damp substrates.

**TECHNICAL DATA:**
- **Consistency:** creamy.
- **Waiting time between each coat:** 5-6 hours at +23°C.
- **Colour:** white.
- **Consumption:** 2.5 kg/m² corresponds to a dry coat approx. 2 mm thick.
- **Storage:** 12 months.
- **Packaging:** comp A 12.2 kg and comp. B 2.8 kg.

**TECHNICAL DATA:**
- **Consistency:** fluid liquid.
- **Specific gravity:** 1.1 g/cm³.
- **Dry solids content:** 50%.
- **Waiting time before applying other products:** 6-8 hours.
- **Storage:** 24 months.
- **Application:** roller, brush or spray.
- **Consumption:** approx. 0.16 kg/m².
- **Packaging:** 6 kg.

**TECHNICAL DATA:**
- **Consistency:** creamy.
- **Waiting time between each coat:** 5-6 hours at +23°C.
- **Colour:** white.
- **Consumption:** 0.1-0.2 kg/m².
- **Storage:** 12 months.
- **Packaging:** 50 kg tanks.
27. WATERPROOFING SYSTEMS

**Primer P2**
One-component solvent-based primer for polyurea coatings (from the PURTOP line) on plastic surfaces such as TPO.

**TECHNICAL DATA:**
- **Consistency:** transparent liquid.
- **Colour:** yellowish.
- **Density (g/cm³):** 0.89.
- **Dry solids content (%):** 10.
- **Viscosity (mPa s):** approx. 22 (No. 1 rotor, 100 rpm).
- **Application temperature:** +5°C to +35°C.
- **Recoat time (mins.):** 30 to 60.
- **Consumption:** 0.1-0.2 kg/m².
- **Packaging:** 50 kg tanks.

**Primer P3**
Two-component solvent-based polyurethane primer for products from the PURTOP line.

**TECHNICAL DATA:**
- **Consistency:** comp. A liquid; comp. B liquid.
- **Colour:** comp. A transparent yellow; comp. B dark brown.
- **Density (g/cm³):** comp. A 0.9÷1.1; comp. B 0.9÷1.2.
- **Dry solids content (%):** comp. A approx. 90; comp. B 100.
- **Viscosity (mPa s):** comp. A 350÷500 (needle 2, 50 rpm); comp. B 70÷110 (needle 1, 100 rpm).
- **A/B ratio (in weight):** 100/37.
- **Application temperature:** +5°C to +35°C.
- **Workability time (mins.):** approx. 30.
- **Recoat time for polyurethane finishes (h):** 4.
- **Recoat time for bitumen membranes (h):** 2-4.
- **Consumption:** 0.1-0.2 kg/m².
- **Packaging:** 5+1.20 kg units (A+B); 1.24 kg units.

**Primer PU Fast**
Two-component solvent-free epoxy primer for damp substrates.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colour:** light brown.
- **Mixing ratio A/B (by weight):** 45:55.
- **Pot life of the mix:** 35 minutes at +23°C.
- **Consumption:** approx. 0.15-0.3 kg/m².
- **Storage:** 12 months.
- **Packaging:** comp A 4.5 kg and comp. B 5.5 kg.

**Purtop 400 M**
Two-component, solvent-free, spray applied, hybrid polyurea membrane applied in situ using a high-pressure, bi-mixer type pump to form waterproof coatings on bridge decks and flat roofs.

**TECHNICAL DATA:**
- **A/B ratio (by volume):** 100/100.
- **Classification:** EN 1504-2.
- **Application:** by spray with a high-pressure bi-mixer pump.
- **Consumption:** 2.2 kg/m² per 2 mm of thickness.
- **Packaging:**
  - component A: 220 kg drums;
  - component B: 225 kg drums.
**Purtop 600**
Two-component, solvent-free, hybrid polyurea membrane applied by spray with a high-pressure, bi-mixer type pump, to form waterproof coatings on new and old buildings directly on site (not suitable for vehicles).

**Technical Data:**
- **A/B ratio (by volume):** 100/68.
- **Classification:** EN 1504-2.
- **Application:** by spray with a high-pressure bi-mixer pump.
- **Consumption:** 2.2 kg/m² per 2 mm of thickness.
- **Packaging:**
  - Component A: 210 kg drums;
  - Component B: 220 kg drums.

---

**Purtop 1000**
Two-component, solvent-free, pure polyurea membrane applied by spray with a high-pressure, bi-mixer type pump, to form waterproof coatings directly on site.

**Technical Data:**
- **A/B ratio (by volume):** 100/100.
- **Classification:** EN 1504-2.
- **Application:** by spray with a high-pressure bi-mixer pump.
- **Consumption:** 2.2 kg/m² per 2 mm of thickness.
- **Packaging:**
  - Component A: 220 kg drums;
  - Component B: 225 kg drums.

---

**Purtop ADY**
Admixture for applying PURTOP EASY waterproofing membranes in just one single coat.

**Technical Data:**
- **Consistency:** liquid.
- **Colour:** brown.
- **Mixing ratio A/B with Purtop Easy (by weight):** 100 : 8.
- **Storage:** 12 months.
- **Packaging:** boxes containing six 0.5 l or 1.2 l or eight 2 l cans.

---

**Purtop Easy**
One-component, elastic polyurethane waterproofing membrane.

**Technical Data:**
- **Consistency:** thick liquid.
- **Waiting time between each coat:** 24 hours at +23°C.
- **Colour:** white, grey, red.
- **Consumption:** 2 kg/m² corresponds to a dry coat approx. 1.5 mm.
- **Storage:** 12 months.
- **Packaging:** 6, 15 and 25 kg.
**Purtop Easy DW**
Two-component elastic polyurethane membrane for waterproofing drinking water tanks.

**Technical Data:**
- Consistency: creamy.
- Waiting time between each coat: 5-6 hours at +23°C.
- Colour: white.
- Consumption: 2.5 kg/m² corresponds to a dry coat approx. 2 mm.
- Storage: 12 months.
- Packaging: comp A 12.2 kg and comp. B 2.8 kg.

---

**Purtop Easy T**
One-component transparent aliphatic polyurethane waterproofing membrane for terraces and balconies.

**Technical Data:**
- Consistency: liquid.
- Waiting time between each coat: 8-24 hours at +23°C.
- Colour: transparent.
- Consumption: 1 kg/m² corresponds to a dry coat approx. 1 mm thick.
- Storage: 12 months.
- Packaging: 5 and 20 kg.

---

**Purtop Easy T Primer**
Colourless primer for non-absorbent substrates to be used before laying PURTOP EASY T.

**Technical Data:**
- Consistency: thick liquid.
- Colour: transparent.
- Touch dry: 10 minutes at +23°C.
- Consumption: approx. 50 kg/m².
- Storage: 12 months.
- Packaging: 4 kg.

---

**Purtop FR**
Two-component, solvent-free, hybrid polyurea membrane applied by spray with a high-pressure, bi-mixer type pump, to create fire-resistant waterproof coatings in situ.

**Technical Data:**
- A/B ratio (in volume): 100/100.
- Classification: EN 1504-2.
- Fire reaction class (EN 13501-1):
  - D, s3-d0;
  - Bl - s1 (when applied on floors).
- Reaction to external fire classification (EN 13501-5):
  - B30 t1, t2, t3 and t4.
- Application: by spray with a high-pressure bi-mixer pump.
- Consumption: 2.2 kg/m² (2 mm thick coat).
- Packaging:
  - component A: 225 kg drum;
  - component B: 225 kg drum.
**Purtop HA**
Manually-applied two-component, polyurea waterproofing membrane.

**TECHNICAL DATA:**
- **A/B ratio (by weight):** 100/106.5.
- **Application:** notched trowel.
- **Consumption:** 2.6 kg/m² per 2 mm of thickness.
- **Packaging:**
  - Component A: 10 kg drum;
  - Component B: 10.7 kg drum.

---

**Purtop Primer Black**
One-component solvent primer, specific for improving adhesion of asphalt flooring on surfaces waterproofed with products from the PURTOP range.

**TECHNICAL DATA:**
- **Consistency:** liquid.
- **Colours:** black.
- **Application temperature range:** from +5°C to +35°C.
- **Hardening time:** 2-4 hours.
- **Packaging:** 20 kg drums.

---

**27.3 Sealing and waterproofing joints and fillets**

**Adesilex PG4**
Two-component, thixotropic epoxy adhesive with modified rheology for bonding MAPEBAND, MAPEBAND TPE, PVC strips and Hypalon and for structural bonds.

**TECHNICAL DATA:**
- **Workability time at +23°C:** 70 min.
- **Setting time at +23°C:** 5 hours.
- **Final hardening time:** 7 days.
- **Classification:** EN 1504-4.
- **Application:** trowel or smooth trowel.
- **Consumption:** 1.60-1.65 kg/m² per mm of thickness.
- **Packaging:** 30 kg (A+B), 6 kg (A+B) and 2 kg (A+B).

---

**Idrostop**
Hydrophilic, expanding rubber profiles for waterproof working joints.

**TECHNICAL DATA:**
- **Shape:** pre-formed tape.
- **Sizes available:**
  - 20x10 mm (IDROSTOP 10);
  - 20x15 mm (IDROSTOP 15);
  - 20x25 mm (IDROSTOP 25).
- **Storage:** 12 months.
- **Application temperature range using IDROSTOP MASTIC as an adhesive:** from +10°C to +40°C.
- **Waiting time before casting if laying has been carried out using IDROSTOP MASTIC:** 24 hours.
- **Waiting time before casting if fixed in place with nails or screws:** not required.
- **Maximum width of joint:** 7 mm.
- **Packaging:**
  - IDROSTOP 10: 6x10 m rolls;
  - IDROSTOP 15: 6x7 m rolls;
  - IDROSTOP 25: 6x5 m rolls.
**Idrostop B25**
Hydro-expanding bentonite jointing material for sealing construction joints.

**TECHNICAL DATA:**
- **Shape:** pre-formed tape.
- **Size:** 20x25 mm.
- **Storage:** 24 months.
- **Application temperature range:** from -5°C to +50°C.
- **Waiting time before casting:** not required.
- **Packaging:** 6x5 m rolls.

**Idrostop Mastic**
One-component adhesive for laying IDROSTOP.

**TECHNICAL DATA:**
- **Consistency:** thixotropic paste.
- **Dry solids content:** 100%.
- **Storage:** 18 months.
- **Application temperature range:** from +5°C to +35°C.
- **Dust dry:** 10 minutes.
- **Waiting time before casting:** 24 hours.
- **EMICODE:** EC1 Plus - very low emission.
- **Consumption:** approximately 300 ml each 5 linear metres of IDROSTOP.
- **Packaging:** boxes containing 12x300 ml cartridges.

**Idrostop PVC BE**
PVC waterstop with external lug for sealing structural joints.

**TECHNICAL DATA:**
- **Application:** mechanically.
- **Packaging:** IDROSTOP PVC BE is available in two sizes:
  - IDROSTOP PVC BE20 (width 20 cm) in 25 m-long rolls;
  - IDROSTOP PVC BE24 (width 24 cm) in 25 m-long rolls.

**Idrostop PVC BI**
PVC waterstop with internal lug for sealing structural joints.

**TECHNICAL DATA:**
- **Application:** mechanically.
- **Packaging:** IDROSTOP PVC BI is available in three sizes:
  - IDROSTOP PVC BI20 (width 20 cm) in 25 m-long rolls;
  - IDROSTOP PVC BI25 (width 25 cm) in 25 m-long rolls;
  - IDROSTOP PVC BI30 (width 30 cm) in 25 m-long rolls.
Idrostop Soft
Hydro-expansive, high-flexibility bentonite jointing profile for waterproofing construction joints and second pours of concrete.

Mapeband
Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid sheaths.

Mapeband Easy
Rubber tape sandwiched between two layers of non-woven fabric to form elastic joints in waterproofing systems.

Mapeband Flex Roll
Tape for the flexible waterproofing of expansion joint and cracks.

TECHNICAL DATA:
Material: TPE.
Width: 200 mm, 300 mm, 400 mm, 600 mm and 800 mm (other sizes available upon request).
EMICODE: EC1 Plus - very low emission.
Thickness: 2 mm.
Packaging: 20 m rolls.

TECHNICAL DATA:
Type of material: rubber sandwiched between two layers of non-woven polypropylene fabric.
Thickness: 0.68 mm.
Width: 130 mm.
Tensile strength: 45 N/15 mm.
Elongation at failure: 315 %.
EMICODE: EC1 Plus - very low emission.
Packaging:
– 120 mmx50 m rolls;
– 120 mmx10 m rolls;
– 90° and 270° angular pieces;
– gaskets for outlets, sizes 120x120 mm and 400x400 mm;
– special cross and T pieces.

TECHNICAL DATA:
In service temperature range: from -30°C to +60°C.
EMICODE: EC1 Plus - very low emission.
Packaging:
– 120 mmx50 m rolls;
– 120 mmx10 m rolls;
– 90° and 270° angular pieces;
– templates to make through holes (200 x 200 mm and 400 x 400 mm).

TECHNICAL DATA:
Type of material: rubber sandwiched between two layers of non-woven polypropylene fabric.
Thickness: 0.68 mm.
Width: 130 mm.
Tensile strength: 45 N/15 mm.
Elongation at failure: 315 %.
EMICODE: EC1 Plus - very low emission.
Packaging:
– 120 mmx50 m rolls;
– 120 mmx10 m rolls;
– 90° and 270° angular pieces;
– templates to make through holes (200 x 200 mm and 400 x 400 mm).

TECHNICAL DATA:
Material: TPE.
Width: 200 mm, 300 mm, 400 mm, 600 mm and 800 mm (other sizes available upon request).
EMICODE: EC1 Plus - very low emission.
Thickness: 2 mm.
Packaging: 20 m rolls.
27. WATERPROOFING SYSTEMS

**Mapeband PE 120**
PVC tape for waterproofing systems made from liquid membranes.

**TECHNICAL DATA:**
- Thickness of tape: approximately 0.7 mm.
- In service temperature range: from -5°C to +30°C
- EMICODE: EC1 Plus - very low emission.

**Packaging:**
- rolls 120 mm wide by 50 m long;
- rolls 120 mm wide by 10 m long;
- 90° and 270° angular pieces;
- gaskets for outlets, sizes 120x120 mm and 425x425 mm.

**Mapeband SA**
Self-adhesive butyl tape with alkali-resistant, non-woven fabric for elastic waterproofing systems.

**TECHNICAL DATA:**
- Density: 1.6 g/cm³.
- Temperature of application: from +5°C to +30°C.
- Width: 100 mm.
- Thickness: approx. 2 mm.
- EMICODE: EC1 Plus - very low emission.

**Packaging:**
- 25 m rolls;
- gaskets for outlets, sizes 370x370 mm.

**Mapeband TPE**
TPE tape for flexible sealing and waterproofing of expansion joints and cracks subject to movement.

**TECHNICAL DATA:**
- Sizes available:
  - 17 cm (MAPEBAND TPE 170);
  - 32.5 cm (MAPEBAND TPE 325).
- Width of expanding zone:
  - MAPEBAND TPE 170: 50 mm;
  - MAPEBAND TPE 325: 165 mm.
- Thickness: 1.2 mm.
- Maximum elongation of expanding zone:
  - 5 mm (MAPEBAND TPE 170);
  - 10 mm (MAPEBAND TPE 325).

**Packaging:**
- 30 m rolls (both 170 and 325 width versions);
- special cross and T pieces (both 170 and 325 width versions).

**Mapeflex E-PU 30 NS**
Two-component, high-strength, epoxy-polyurethane sealant with high modulus of elasticity.

**TECHNICAL DATA:**
- Movement in service: 10%.
- Shore A hardness: 60.
- Workability time: 40 minutes.
- Set to traffic: 24-36 h.
- Colour: 113 grey.
- Application: trowel.
- Consumption: 0.14 kg/linear metres (10x10 mm section).
- Packaging: 5 (A+B).
**Mapeflex PU 40**
Polyurethane sealant with a low modulus of elasticity with movements up to 25%.

**TECHNICAL DATA:**
- Movement when in service: 25%.
- Modulus of elasticity with 100% elongation: 0.3 N/mm².
- Shore A hardness: 27.
- Workability: 4 hours.
- Colours: white, grey 111, grey 112.
- Application: extrusion pistol.
- Consumption:
  - ~3.0 meters every 300 ml cartridge;
  - ~6.0 meters every 600 soft-cartridge (10x10 mm section).
- Packaging: 300 ml cartridges; 600 ml soft-cartridges.

**Mapeflex PU 45 FT**
Rapid-hardening paintable polyurethane sealant and adhesive with a high modulus of elasticity for movements up to 20%.

**TECHNICAL DATA:**
- Movement in service: 20%.
- Modulus of elasticity at 100% elongation: 0.80 N/mm².
- Shore A hardness: 38.
- Workability time: 35 mins.
- Colours: white, 111 grey, 113 grey, black.
- Application: silicone gun.
- Consumption: 3.0 meters per 300 ml cartridge, 6.0 meters per 600 ml tube (10x10 mm section).
- Packaging: 300 ml cartridge, 600 ml tube.

**Mapeflex PU50 SL**
Castable polyurethane sealant with a low modulus of elasticity for movements up to 25%.

**TECHNICAL DATA:**
- Elongation at failure: > 1000%.
- Movement when in service: ± 25%.
- Set to light foot traffic: according to the depth of the joint.
- Ready for use: according to the depth of the joint.
- Shore A hardness: 22.
- Colour: 111 grey.
- Application: pouring, extrusion gun, pressure pump.
- Storage: 12 months.
- Consumption: 6.0 metres every 600 soft-cartridges (10x10 mm section).
- Packaging: boxes of 20 pieces (600 ml soft-cartridges).

**Mapefoam**
Closed-cell, extruded foam polyethylene cord used as a support for elastomer sealants to gauge the correct size of flexible joints.
Supplied in hanks, total length proportional to the diameter.

**TECHNICAL DATA:**
- Density: 40 kg/m³.
- Tensile strength: 30 N/mm².
- Water absorption: none.
- Colour: grey.
- In service temperature range: from -40°C to +80°C.
- Packaging:
  - Ø 6 mm boxes of 550 m - bags of 10 m
  - Ø 10 mm boxes of 550 m - bags of 10 m
  - Ø 15 mm boxes of 550 m - bags of 10 m
  - Ø 20 mm boxes of 350 m - bags of 10 m
  - Ø 25 mm boxes of 200 m
  - Ø 30 mm boxes of 160 m
  - Ø 40 mm boxes of 270 m
27. WATERPROOFING SYSTEMS

**Mapeguard IC/ Mapeguard EC**
Special shaped pieces for the MAPEGUARD WP SYSTEM waterproofing system for internal and external corners and edges.

**Mapeguard PC**
Flexible gaskets in various diameters for the MAPEGUARD WP SYSTEM for waterproofing through pipes and drains.

**Mapeguard ST**
Waterproofing tape in rolls for sealing edges and joints between sheets of MAPEGUARD WP 200.

**Mapsil AC**
Pure, mould-resistant, acetic silicone sealant for movements up to 25%.

---

**Technical Data**:

**Movement when in service:** 25%.

**Modulus of elasticity at 100% elongation:** 0.35 N/mm².

**Shore A hardness:** 20.

**Workability:** 10’.

**Colours:** transparent and the 34 colours.

**EMICODE:** EC1 Plus - very low emission.

**Application:** extrusion gun.

**Consumption:** 3.1 metres every 310 ml cartridge (10x10 mm section).

**Packaging:** 310 ml cartridges.
**Mapetape**
Cold-applied self-adhesive tape for sealing and waterproofing overlapping joints and cracks. Available in various widths (50, 100, 150 and 200 mm) and coloured finishes (aluminium, lead).

**Ultrabond MS Rapid**
Rapid-setting, deformable, hybrid assembly adhesive for internal and external use with a high initial sucker effect.

**TECHNICAL DATA:**
- In-service temperature: -20°C/+80°C
  (-20°C/+65°C if applied on surfaces with a slope of more than 45°).
- Application temperature: +5°C/+45°C.
- Elongation at failure: > 20%.
- Storage: 24 months at +5°C/+30°C.

- Viscosity: thixotropic paste.
- Density: 1.55 kg/l.
- Open time: 5'.
- Initial tensile strength: 25 N.
- Final shear strength: 30 kg/cm².
- Hardening time: 2 h.
- EMICODE: EC1R Plus - very low emission.
- Colour: white.
- Application: gun.
- Consumption: 5 linear metres (triangular section).
- Packaging: 300 ml cartridges.
# 28. Admixtures for Concrete

## 28.1 Admixtures for Concrete

<table>
<thead>
<tr>
<th>Admixture</th>
<th>Description</th>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cablejet</strong></td>
<td>Expansive and plasticising admixture for making fluid slurries.</td>
<td>Dosage: 2% to 4% of weight of cement. Packaging: 18 kg bags. Box of 4 x 3 kg water-soluble bags.</td>
</tr>
<tr>
<td><strong>Dynamon SX</strong></td>
<td>Modified acrylic super-plasticiser for concrete, characterised by its low water/cement ratio, very high mechanical strength and long workability times.</td>
<td>Dosage: 0.5-2 lt every 100 kg of cement for conventional concrete, or of the fine parts (through a 0.1 mm sieve) for self-compacting concrete. Packaging: 25 kg tanks.</td>
</tr>
<tr>
<td><strong>Expancrete Plus</strong></td>
<td>Expansive admix for controlled-shrinkage concrete.</td>
<td>Dosage: between 2 and 5% by weight of cement in the mix. Packaging: – 20 kg vacuum-packed polyethylene bags; – box of 4 x 3 kg water-soluble bags.</td>
</tr>
<tr>
<td><strong>Expanfluid</strong></td>
<td>Expansive anti-shrinkage agent for slurries for injection.</td>
<td>Dosage: 3% to 6% of weight of cement. Packaging: box of 4 x 3 kg water-soluble bags.</td>
</tr>
</tbody>
</table>
**Idrocrete DM**
Bulk water-repellent admixture. Particularly recommended for concrete with a damp earth consistency.

**TECHNICAL DATA:**
- **Dosage:** from 0.2 to 0.6 kg every 100 kg of cement.
- **Packaging:** 25 kg tanks.

**Idrocrete KR 1000**
Powdered crystallising admixture for waterproof concrete.

**TECHNICAL DATA:**
- **Dosage:** 1 to 3 kg every 100 kg of cement.
- **Packaging:** 20 kg bags and boxes of 4 x 4 kg water-soluble bags.

**Idrocrete S**
Bulk water-repellent, waterproofing admixture.

**TECHNICAL DATA:**
- **Dosage:** from 0.6 to 1.2 kg every 100 kg of cement.
- **Packaging:** 10 and 25 kg tanks.

**Mapeair AE1**
Aerating product for concrete and cementitious mortar.

**TECHNICAL DATA:**
- **Dosage:**
  - concrete: from 15 to 100 ml every 100 kg of cement.
  - cementitious mortar: from 100 to 300 ml every 100 kg of binder.
- **Packaging:** 10 and 25 kg tanks.
28. ADMIXTURES FOR CONCRETE

**Mapeair LA/P**
Admixture for fluid fillers, mortar and lightweight concrete.

**TECHNICAL DATA:**
- **Dosage:** 0.5 kg per m³ of mix.
- **Packaging:** box of 30 x 0.5 kg water-soluble sachets.

**Mapecrete Drain P**
Powdered admixture for making pervious concrete.

**TECHNICAL DATA:**
- **Dosage:** 0.5% to 3% of weight of cement.
- **Packaging:** box of 4 x 3 kg water-soluble bags.

**Mapecure SRA**
Curing admixture for cementitious mortar and concrete to reduce hydraulic shrinkage and the formation of micro-cracks.

**TECHNICAL DATA:**
- **Consumption:** Mortar: 0.26-0.5% by weight of the mortar. Concrete and beton: 5-8 l/m³.
- **Packaging:** 20 kg tanks.

**Mapefast C**
Chloride-based admixture to accelerate setting and hardening of cementitious mortar.

**TECHNICAL DATA:**
- **Dosage:** 0.75-1.5 kg every 100 kg of cement.
- **Packaging:** 7, 13 and 30 kg tanks.
**Mapefast CF/L and Mapefast CF/P**

Chloride-free hardening accelerator for concrete and mortar.

**TECHNICAL DATA:**

Dosage: MAPEFAST CF/L: 0.75-3 l per 100 kg of cement; MAPEFAST CF/P: 0.5-2 l per 100 kg of cement.

Packaging:
- powder: boxes of 24x1 kg;
- liquid: 6, 12 and 30 kg tanks.

---

**Mapefibre NS12/NS18**

Polypropylene microfibres for concrete.

**TECHNICAL DATA:**

Dosage: 800 g/m³ of concrete or mortar.

Packaging: boxes of 30x0.6 kg each.

---

**Mapefibre Screed 24 NEW**

24 mm long polymer fibres specifically designed to be embedded in screeds.

**TECHNICAL DATA:**

Dosage: from 0.8 to 2 kg/m³ of concrete, depending on the required performances.

Packaging:
- 6 kg plastic bags;
- carton box containing 15 water soluble bags 1 kg/each.

---

**Mapefibre ST 50 Twisted NEW**

Class II structural polymer fibres, in compliance with EN 14889-2:2006, with a length of 50 mm respectively, developed to improve the performance characteristics of conventional concrete, pre-cast concrete and shotcrete.

**TECHNICAL DATA:**

Dosage: 1.5-3 kg /m³ of concrete, depending on the required performances.

Packaging:
- 3 kg plastic bags;
- carton box containing 10 water soluble bags 1.5 kg/each.
**28. ADMIXTURES FOR CONCRETE**

### Mapefibre ST30/ST42
Structural polymer fibres for concrete and cementitious screeds. May be used to completely or partially substitute conventional reinforcement. Length of fibres: 30 and 42 mm.

**TECHNICAL DATA:**
- Dosage: from 1 to 7 kg per cubic metre of mix.
- Packaging: 6 kg polyethylene bags.

### Mapefluid N200
Super-plasticising sulphonated naphthalene admixtures for concrete. Permits the amount of mixing water to be drastically reduced, with a considerable increase in strength, even after short curing periods.

**TECHNICAL DATA:**
- Dosage: from 0.5 to 1.5 litres every 100 kg of cement.
- Packaging: 10 and 25 kg drums.

### Mapefluid PZ500
Pozzolanic-activity super-plasticiser in powder form for high-quality mortar and concrete.

**TECHNICAL DATA:**
- Dosage: from 20 to 60 kg per m³ of mix.
- Packaging: 11 kg vacuum-packed polyethylene bags.

### Mapefluid PZ504
Pozzolanic-activity super-plasticiser in powder form for high-quality mortar and concrete and a low loss in workability.

**TECHNICAL DATA:**
- Dosage: from 20 to 60 kg per m³ of mix.
- Packaging: 11 kg vacuum-packed polyethylene bags.
**Mapefluid R104**
Super-plasticising retardant admixture for concrete, particularly suitable for use in summer to help maintain workability of the mix.

**TECHNICAL DATA:**
Dosage: from 0.5 to 1.5 litres every 100 kg of cement.
Packaging: 25 kg tanks.

---

**Mapeplast PZ300**
Powdered admixture made from micronized Pozzolan-activity materials.

**TECHNICAL DATA:**
Dosage: 50 kg to 250 kg per m³ according to specific site requirements.
Packaging: 20 kg paper bags.

---

**Mapeplast SF**  **NEW**
Powdered admixture with pozzolanic action to be used in combination with superplasticizers for high-quality mortar, grout and concrete with thixotropic, plastic, fluid or super-fluid consistency.

**TECHNICAL DATA:**
Dosage: from 20 to 60 kg/m³ of concrete, depending on the required performances.
Packaging:
- 20 kg bags;
- 10 kg soluble bags.

---

**Mapeplast UW**
Anti-leaching cohesion-inducing admixture for underwater pours.

**TECHNICAL DATA:**
Dosage: 0.6% to 3% of weight of cement.
Packaging:
- box of 4 x 3 kg bags;
- box of 4 x 3 kg water-soluble bags.
28. ADMIXTURES FOR CONCRETE

**Mapetard**
Retardant admixture for concrete and mortar with a plasticising effect. Retardant action on setting times of cement. Particularly suitable for use in summer to help maintain workability of the mix.

**Planicrete**
Synthetic latex rubber to improve adhesion of cement mixes.

**Mapescreed Advance MR** NEW
Admixture for medium-strength, quickdrying, controlled-shrinkage, cementitious screed mortar with a semidry consistency.

**Mapescreed Advance HR** NEW
Admixture for high-strength, quickdrying, controlled-shrinkage, cementitious screed mortar with a semidry consistency.

**28.2 Admixtures for screeds**

**Mapescreed**
Dosage: from 0.5 to 1.5 l per 100 kg of cement.
Packaging: in 25 kg drums and 1000 l tanks.

**Planicrete**
Consistency: fluid liquid.
Dry solids content: 36%.
Storage: 24 months.
Consumption:
- for bonding slurry: 100-150 g/m²;
- to prepare screeds and renders: 50-80 kg/m³.
Packaging: 5, 10 and 25 kg drums and 12x1 kg packages.

**Planicrete**
Synthetic latex rubber to improve adhesion of cement mixes.

**Mapetard**
Dosage: from 0.2 to 0.5 litres every 100 kg of cement.
Packaging: 25 kg tanks.

**Mapescreed**
Dosage: from 0.5 to 1.5 l per 100 kg of cement.
Packaging: in 25 kg drums and 1000 l tanks.
**Mapescreed 720**
Cement admixture for ready-mixed or site mixed cementitious screeds.

**Mapescreed Finish**
New
Finishing aid for cementitious screeds.

**Mapescreed Slowset**
Admixture for semi-dry cementitious quick-drying screeds, for prolonged workability during hot weather.

**Mapescreed HF GEL**
Special plasticising and hydrophobizing gel admixture with polymer microfibres for cementitious screeds.

---

**TECHNICAL DATA:**

**Dosage:**
- 0.5 - 0.8 l per 100 kg of cement.

**Packaging:**
- 22 kg drums and 1000 l tanks.

---

**Dosage:**
- 1.0 l per 100 kg of cement.

**Packaging:**
- 22 kg drums and 1000 l tanks.

---

**Dosage:**
- 1.0 l per 100 kg of cement.

**Packaging:**
- 25 kg drums and 1000 l tanks.

---

**Dosage:**
- from 0.5 to 1.5 l per 100 kg of cement.

**Packaging:**
- in 25 kg drums and 1000 l tanks.

---

**Dosage:**
- 0.5 - 0.8 l per 100 kg of cement.

**Packaging:**
- 22 kg drums and 1000 l tanks.
28. ADMIXTURES FOR CONCRETE

28.3 Form-release agents

**DMA 1000**
Emulsionable form-release agent for wooden formwork. Emulsify one part of the product with 5-20 parts of water according to the type of formwork.

**DMA 2000**
Ready-to-use chemical/physical action form-release agent for metal formwork.

**Mapeform 1500**
Multi-purpose, low viscosity, chemical/physical-action form-release oil to facilitate stripping concrete.

**Mapeform Eco Oil**
Chemical-action vegetable oil-based form release agent to make stripping concrete easier.

**TECHNICAL DATA:**
- **Application:** brush or spray.
- **Consumption:** 10-30 g/m² of neat product.
- **Packaging:** 4.5, 23 and 9 kg tanks.

**TECHNICAL DATA:**
- **Dosage:** approx. yield 20-25 g/m² for all types of formwork.
- **Packaging:** 23 kg tanks.

**TECHNICAL DATA:**
- **Application:** brush or spray.
- **Dosage:** approx. yield 20-25 g/m² for all types of formwork.
- **Packaging:** 23 kg tanks.
28.4 Superficial curing compounds

**Mapecure E**
Anti-evaporation agent in water emulsion for protecting the surface of concrete against quickly drying out when exposed to sunlight and winds.

**TECHNICAL DATA:**
- **Application:** spray.
- **Consumption:**
  - neat: 70-100 g/m²
  - diluted: 1:1 with water: 140-200 g/m²
- **Packaging:** 25 kg tanks.

**Mapecure S**
Film-forming curing agent in solvent to protect mortar and concrete from drying out too quickly when exposed to sunlight and winds.

**TECHNICAL DATA:**
- **Application:** roller or spray.
- **Consumption:** 0.10-0.15 kg/m².
- **Packaging:** 24 kg tanks.

**Mapecure WG**
Film-forming curing agent in aqueous emulsion for concrete. Does not need to be removed from the surface before bonding the floor covering.

**TECHNICAL DATA:**
- **Application:** by spray or with a roller.
- **Consumption:** 150-200 g/m².
- **Packaging:** 25 kg tanks.

28.5 Mapei Color Paving

**Color Paving Admix**
Ready-mixed multi-purpose powdered admixture for exposed-finish architectural floors and surfaces.

**TECHNICAL DATA:**
- **Colours:** neutral, red, sand, yellow.
- **Dosage:** 25 kg/m² of concrete.
- **Packaging:** paper bag containing 2 x 12.5 kg water-soluble bags.
**Color Paving Binder**
Ready-mixed ready to use screed supplied in big-bags for creating architectural road surfaces in exposed aggregate concrete.

**TECHNICAL DATA:**
Colours: neutral, red, sand, yellow.
Packaging: 970 kg big-bags.

**Color Paving Pronto**
Ready-mixed ready to use screed supplied in bags for creating architectural road surfaces in exposed aggregate concrete.

**TECHNICAL DATA:**
Colours: neutral, red, white, yellow.
Particle size: 8/12 mm (neutral-red-yellow) - 12/16 mm (neutral-red-white-yellow).
Consumption: 25 kg to make 11.2 litres of concrete (88 bags/m³).
Packaging: 25 kg bags.

**Mapecolor Pigment**
Powdered pre-dispersed oxides to create an even stable colour in concrete mixes.

**TECHNICAL DATA:**
Colours: yellow, red, brown, green, black. Other colours available upon request.
Dosage: 1% to 4% by weight of white cement; 3% to 6% by weight of grey cement.
Packaging: 10 kg cardboard boxes containing 5 kg water soluble bags.

**Mapecrete Fast Protection**
Hydro-oil repellent protective treatment with a consolidating effect; may be applied on all types of concrete within a minimum of 24 hours of pouring.

**TECHNICAL DATA:**
Dosage: 150-200 g/m².
Packaging: 22 litre drum.
**Mapecrete Mineral Neutral**
Mineralising treatment for concrete floors. Product developed to harden and consolidate the surface of new and old concrete substrates to increase their durability over the years.

**TECHNICAL DATA:**
- **Colour:** colourless.
- **Dosage:** substrates with low porosity (washed concrete, patterned concrete, terrazzo, etc.): 150-200 g/m². Porous substrates (interlocking blocks, drainable concrete, sand-blasted concrete, etc.): 250-300 g/m².
- **Packaging:** 10 litre drums.

**Mapewash PO**
Biodegradable vegetable oil-based surface set retardant with a curing effect to create architectural floors and surfaces.

**TECHNICAL DATA:**
- **Colour:** according to the type of product: green, blue, purple, yellow, pink, grey.
- **Yield:** by spray 3.5-4 m²/l.
- **Packaging:** 5 and 22 litre cans.

**Mapewash Protex**
Temporary protective gel for substrates applied during laying operations to prevent concrete sticking and MAPEWASH PO from being absorbed.

**TECHNICAL DATA:**
- **Yield:** 150 to 300 g per m².
- **Packaging:** 5 and 20 kg plastic drums.
29. Mortars for the building industry

**BIOstabilitura**
Highly compatible, ecological finishing which responds fully to the construction requirements of eco-friendly building work. Finishing mortar for walls, made entirely with high quality, NATURAL, transpirant, eco-compatible, raw materials. Suitable for rendering internal and external surfaces.

**FIBROmalta**
Special fibre-reinforced render for the best results with the minimum effort. Suitable for render and general wall coatings. The micro-fibres guarantee no crack formation caused by plastic shrinkage when drying out. It is suitable for application with a rendering machine and is even more attractive when applied by hand.

**FIBROstabilitura**
FIBROstabilitura is a transpirant finishing mortar for masonry suitable for internal and external biocompatible render without cracks or crazing. FIBROstabilitura is reinforced with fibres which guarantee that no shrinkage cracks or crazing form during drying, and has unrivalled workability. FIBROstabilitura is a highly ecological product which responds fully to the construction requirements of eco-friendly building work.

**Grassello di CALCE**
Aerial binder for transpirant, ecological finishing compounds and render. Aerial binder for preparing traditional masonry render and mortar on site, the main ingredient for making natural, transpirant paintwork, final smoothing coats on render (fresh on fresh) and for restoring ancient buildings.
**HR10 Fibro**
Ready-mixed high-adhesion rendering mortar in double-sealed bags to form rendered surfaces suitable for bonding ceramic tiles in compliance with EN 11493 standards.

**TECHNICAL DATA:**
- **Mixing ratio:** one 25 kg bag of HR10 FIBRO with approx. 3.5-4.0 litres of water.
- **Composition:** lime, cement, silica sand 0/4 mm, in compliance with EN 13139.
- **Packaging:** 25 kg bags.
- **Yield:** 1 m³ of already mixed mortar is equal to approx. seventy 25 kg, 19 kg/m²/cm of render.

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<tr>
<th>CS IV</th>
<th>MALTE</th>
<th>PER INTONACI</th>
<th>CONFORME ALLA NORMA EUROPEA EN 998-1</th>
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**HR15**
For fire-resistant constructions with high structural characteristics.
HR15 is a HIGH STRENGTH render RESISTANT TO FIRE. It is particularly suitable for laying concrete and cement blocks and brickwork and is also suitable for rendering. It may be used for protecting and repairing concrete structures, in compliance with EN 1504-3.

**TECHNICAL DATA:**
- **Fire resistance:** REI 180.
- **Mixing ratio:** 1 25 kg bag of HR10 FIBRO with approx. 3.5 litres of water.
- **Mixing time:** 3 minutes.
- **Pot life of mix:** 30-40 minutes.
- **Compressive strength after 28 days:** ≥ 15 N/mm².
- **Aggregate:** 0/4 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 20 kg/m²/cm of render - 20 kg/m² of wall made of cement blocks measuring 20x20x40 cm.

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**MaltaBASTARDA**
The innovative formulate to make masonry and render quickly.
Ready-mixed mortar with guaranteed performance figures for internal and external render, load-bearing and partition walls, sealing water pipes and/or cable runs and for installing shower troughs and sanitary fittings.

**TECHNICAL DATA:**
- **Fire resistance:** EI 240.
- **Mixing ratio:** 1 25 kg bag of MaltaBASTARDA with approximately 3.5 litres of water.
- **Mixing time:** 3 minutes.
- **Pot life of mix:** 30-40 minutes.
- **Compressive strength after 28 days:** ≥ 6 N/mm².
- **Aggregate:** 0/4 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 18 kg/m²/cm of render - 22 kg/m² of wall made of bricks measuring 12x12x24 cm.

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**MaltaVISTA**
For highly attractive, natural finish resistant to the trials of time.
Its special formulation makes MaltaVISTA suitable for structurally-solid, natural finish masonry, guarantees insulation against water ingress and reduces the phenomenon of efflorescence, while its high plasticity makes it possible to adjust the position of blocks and bricks when laying.

**TECHNICAL DATA:**
- **Mixing ratio:** 1 25 kg bag of MaltaVISTA with approximately 3.5 litres of water.
- **Mixing time:** 3 minutes.
- **Pot life of mix:** 30-40 minutes.
- **Compressive strength after 28 days:** ≥ 5 N/mm².
- **Capillary action water absorption:** ≤ 0.15 kg / (m² x min0.5).
- **Aggregate:** 0/1 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 40 kg/m² of wall.

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29. VAGA - AGGREGATES AND MORTARS FOR THE BUILDING INDUSTRY

**VAGAlighTher**

Ultra-light rendering mortar, particularly recommended to create HEAT-INSULATING SYSTEMS and PROTECTIVE FIREPROOF RENDER in compliance with the prescriptions of Ministerial Decree MD 16th February 2007, “Fire-resistance classification of construction products and elements for construction work”. VAGAlighTher is characterised by its ease of use and excellent workability and is the ideal product for all those situations where protective, fireproof render and heat-insulating mortar are required.

**TECHNICAL DATA:**

- **Fire resistance:** M.D. 16th Feb. 2007.
- **Mixing ratio:** one 20 kg bag of VAGAlighTher with approx. 3.5 litres of water.
- **Mixing time:** 3 mins.
- **Pot life of mix:** 30-40 mins.
- **Compressive strength after 28 days:** ≥ 10 N/mm².
- **Particle size:** silica aggregates 0/2 mm.
- **Packaging:** 20 kg bags.
- **Yield:** 11 kg/m²/cm of render.

**INTO+**

Ready-mixed hydrated lime and cement-based powdered base render with high workability applied with a rendering machine on internal and external substrates made from: hydrated lime, Portland cement, graded sand and additives to improve its workability and adhesion.

**TECHNICAL DATA:**

- **Mixing ratio:** 5.8 litres for one 25 kg bag.
- **Compressive strength:** ≥ 2 N/mm².
- **Aggregate:** 0/1.5 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 13.5 kg/m²/cm of render.

**INTO+ Fibro**

Ready-mixed fibre-reinforced hydrated lime and cement-based powdered base render applied with a rendering machine on internal and external substrates made from: hydrated lime, Portland cement, graded sand, fibres and additives to improve its workability, adhesion and flexural strength.

**TECHNICAL DATA:**

- **Mixing ratio:** 5.8 litres for one 25 kg bag.
- **Compressive strength after 28 days:** ≥ 2.0 N/mm².
- **Aggregate:** 0/1.5 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 13.5 kg/m²/cm of render.

**Malta+ Fibro**

Ready-mixed fibre-reinforced powdered mortar applied using manual tools on exposed masonry made from: Portland cement, hydraulic lime, graded sand, fibres and additives to improve its application characteristics. Suitable for a wide variety of uses such as general building work and rendering internal and external masonry made from bricks, concrete blocks, stone, etc. Its special formulation facilitates application using manual tools, including by operators not specialised in this type of work. The fibres and special additives in the mortar contrast the effect of hydraulic shrinkage and reduce the risk of crack formation to a minimum, including when rendering heterogeneous substrates.

**TECHNICAL DATA:**

- **Mixing ratio:** one 25 kg bag of MALTA+ FIBRO with approx. 4.0 litres of water.
- **Mixing time:** 3 minutes.
- **Compressive strength:** ≥ 6.0 N/mm².
- **Capillary action water absorption:** ≤ 0.50 kg / (m² x 0.5 min).
- **Aggregate:** 0/1.5 mm.
- **Packaging:** 25 kg bags.
- **Yield:** 16 kg/m²/cm.
**RASA+**
RASA+ is a one-component water-repellent normal-hardening fine-textured grey cementitious skimming mortar supplied in powder form made from special high-strength binders, selected aggregates, special admixtures and synthetic polymers. When RASA+ is mixed with water, its special composition forms a highly-adhesive mortar with excellent workability which makes it easier to apply with a smooth trowel and easier to finish the surface with a metal or sponge float.

**CALCESTRUZZO RCK30**
CALCESTRUZZO RCK30 by Vaga is ideal for making CAST STRUCTURAL ELEMENTS AND MEMBERS with guaranteed mechanical performance characteristics such as beams, pillars, foundation plinths, floor slabs, etc.; EXPOSED ELEMENTS AND MEMBERS such as stairs, floors and walls; CONCRETE FLOORS; CAST CONCRETE EXPOSED TO (EN206-1): dry surroundings (XC1) and wet surroundings (XC2).

**CALCESTRUZZO RCK40**
CALCESTRUZZO RCK40 by Vaga is ideal for making: high strength CAST STRUCTURAL ELEMENTS AND MEMBERS such as beams, pillars, foundation plinths, floor slabs, etc.; EXPOSED ELEMENTS AND MEMBERS such as stairs, floors and walls; CONCRETE FLOORS; CAST CONCRETE EXPOSED TO (EN206-1): moderately damp surroundings (XC3), cyclical wet/dry surroundings (XC4), airborne salt (XS1), other chlorides (XD2), surroundings with freeze/thaw cycles (XF1), chemical attack (XA1).

**BEtonFLuid**
BEtonFLuid is a high-strength (Rck 40 N/mm²), self-compacting concrete (SCC) made by VAGA, ideal for manufacturing all types of structural elements with a natural finish. BEtonFLuid is particularly suitable for casting into special formwork, including where there is a high density of reinforcement rods, without the risk of segregation.

**RASA+**

**CALCESTRUZZO RCK30**

**CALCESTRUZZO RCK40**

**BEtonFLuid**

**29.3 Concrete for the building industry**

**RASA+**

**CALCESTRUZZO RCK30**

**CALCESTRUZO RCK40**
**Drenò**
Drenò is permeable concrete ideal for making floors with very high drainage capacity (> 640 mm/min), including those places difficult to reach with conventional casting systems.

**Vagaquarz**
Vagaquarz is a mixture of particularly hard, natural mineral aggregates (quartz) which is used to protect concrete floors. It is particularly recommended for use in industrial environments and in warehouses where there is a high volume of vehicles in transit. Vagaquarz is supplied ready to use, is pre-mixed with cement, additives and fillers and may be applied either manually or with power tools over wet concrete.

**Extrabéton**
Extrabéton by Vaga is ideal for making:
- high-strength, durable CAST STRUCTURAL ELEMENTS AND MEMBERS such as beams, pillars, foundation plinths and floor slabs, including those resistant to chemicals (to be verified with VAGA TECHNICAL SERVICES);
- FLOORS IN INDUSTRIAL ENVIRONMENTS AND FLOORS WITH VEHICLE ACCESS (including those resistant to FREEZE/THAW cycles);
- ALL TYPES OF CONTAINMENT BASINS (e.g. for drinking water, water with aggressive chemicals, depuration basins, sewer systems, etc.);
- STRUCTURAL ELEMENTS AND MEMBERS such as stairs and floors;
- CAST CONCRETE EXPOSED TO (EN206-1):
  - cyclical wet/dry surroundings (XC4),
  - airborne salt (XS3),
  - other chlorides (XD3),
  - surroundings with freeze/thaw cycles (XF2 - XF3 - XF4) and chemical attack (XA1 - XA2* - XA3*).

(* to be verified with VAGA TECHNICAL SERVICES)

**Saetta**
When time is tight and quality is a must. Saetta ultra high performance quick beton with low shrinkage rate. The formulate complies with EN 206-1 standards, “and allows the time required for building work to be considerably reduced, including structural work, thanks to a stripping being time of just 2 hours!”

**Dreno**
Dreno permeable concrete: ideal for making floors with very high drainage capacity (> 640 mm/min), including those places difficult to reach with conventional casting systems.

**Extrabéton**
Extrabéton by Vaga is ideal for making:
- high-strength, durable CAST STRUCTURAL ELEMENTS AND MEMBERS such as beams, pillars, foundation plinths and floor slabs, including those resistant to chemicals (to be verified with VAGA TECHNICAL SERVICES);
- FLOORS IN INDUSTRIAL ENVIRONMENTS AND FLOORS WITH VEHICLE ACCESS (including those resistant to FREEZE/THAW cycles);
- ALL TYPES OF CONTAINMENT BASINS (e.g. for drinking water, water with aggressive chemicals, depuration basins, sewer systems, etc.);
- STRUCTURAL ELEMENTS AND MEMBERS such as stairs and floors;
- CAST CONCRETE EXPOSED TO (EN206-1):
  - cyclical wet/dry surroundings (XC4),
  - airborne salt (XS3),
  - other chlorides (XD3),
  - surroundings with freeze/thaw cycles (XF2 - XF3 - XF4) and chemical attack (XA1 - XA2* - XA3*).

(* to be verified with VAGA TECHNICAL SERVICES)

**Extrabéton**
Extrabéton by Vaga is ideal for making:
- high-strength, durable CAST STRUCTURAL ELEMENTS AND MEMBERS such as beams, pillars, foundation plinths and floor slabs, including those resistant to chemicals (to be verified with VAGA TECHNICAL SERVICES);
- FLOORS IN INDUSTRIAL ENVIRONMENTS AND FLOORS WITH VEHICLE ACCESS (including those resistant to FREEZE/THAW cycles);
- ALL TYPES OF CONTAINMENT BASINS (e.g. for drinking water, water with aggressive chemicals, depuration basins, sewer systems, etc.);
- STRUCTURAL ELEMENTS AND MEMBERS such as stairs and floors;
- CAST CONCRETE EXPOSED TO (EN206-1):
  - cyclical wet/dry surroundings (XC4),
  - airborne salt (XS3),
  - other chlorides (XD3),
  - surroundings with freeze/thaw cycles (XF2 - XF3 - XF4) and chemical attack (XA1 - XA2* - XA3*).

(* to be verified with VAGA TECHNICAL SERVICES)

**Extrabéton**
Extrabéton by Vaga is ideal for making:
- high-strength, durable CAST STRUCTURAL ELEMENTS AND MEMBERS such as beams, pillars, foundation plinths and floor slabs, including those resistant to chemicals (to be verified with VAGA TECHNICAL SERVICES);
- FLOORS IN INDUSTRIAL ENVIRONMENTS AND FLOORS WITH VEHICLE ACCESS (including those resistant to FREEZE/THAW cycles);
- ALL TYPES OF CONTAINMENT BASINS (e.g. for drinking water, water with aggressive chemicals, depuration basins, sewer systems, etc.);
- STRUCTURAL ELEMENTS AND MEMBERS such as stairs and floors;
- CAST CONCRETE EXPOSED TO (EN206-1):
  - cyclical wet/dry surroundings (XC4),
  - airborne salt (XS3),
  - other chlorides (XD3),
  - surroundings with freeze/thaw cycles (XF2 - XF3 - XF4) and chemical attack (XA1 - XA2* - XA3*).

(* to be verified with VAGA TECHNICAL SERVICES)
**SABBIA CEMENTO**

Formulate with special acrylic admixtures for any type of high-performance screed.

Ready-mixed cementitious screed suitable for laying all types of bonded and floating screeds, including heated screeds. Set to foot traffic after approximately 16 hours, wait 36 hours before laying ceramic tiles and 14 days for parquet and resilient coverings.

**TURBOMASS**

Special formulate for making fibre-reinforced quick-drying ready-mixed screed, particularly suitable for laying flooring substrates, including heated floor substrates, when drying times need to be reduced. TURBOMASS sets to foot traffic after 3-4 hours and dries after 4 days and is ready for laying parquet and resilient floor coverings.

**MB1 Pavicalce**

Ready-mixed masonry and rendering mortar with dry aggregates for internal and external render, load-bearing and partition walls and for sealing hydraulic and electrical pipe-work.

**NERO+**

NERO+ is a cold, ready to use bitumen conglomerate supplied in bags. It is made from a mixture of aggregates, crushed sand and mineral additives (fillers) hot-blended with bitumen emulsion made with non-toxic flux oils.

**TECHNICAL DATA:**

- **Soundproofing against the noise of footsteps:** $\Delta L_{w} = 23\,\text{dB}$
- **Mixing ratio:** 1 bag of MB1 Pavicalce with approx. 1 litre of water.
- **Mixing time:** until completely blended.
- **Pot life of mix:** 20 mins.
- **Compressive strength after 28 days:** $\geq 6\,\text{N/mm}^2$.
- **Flexural strength after 28 days:** $\geq 4\,\text{N/mm}^2$.
- **Packaging:** 25 kg bags.
- **Yield:** 18 kg/m²/cm of render - 22 kg/m² of wall.

**TECHNICAL DATA:**

- **Mixing ratio:** 1 x 25 kg bag of TURBOMASS with approx. 1 litre of water.
- **Mixing time:** until completely blended.
- **Pot life of mix:** 20 mins.
- **Compressive strength after 28 days:** $\geq 25\,\text{N/mm}^2$.
- **Flexural strength after 28 days:** $\geq 5\,\text{N/mm}^2$.
- **Packaging:** 25 kg bags.
- **Yield:** 20 kg/m²/cm.

**TECHNICAL DATA:**

- **Mixing ratio:** 1 x 25 kg bag of SabbiaCEMENTO with approx. 1 litre of water.
- **Mixing time:** until completely blended.
- **Pot life of mix:** 60 minutes.
- **Compressive strength after 28 days:** $\geq 20\,\text{N/mm}^2$.
- **Flexural strength after 28 days:** $\geq 4\,\text{N/mm}^2$.
- **Packaging:** 25 kg bags.
- **Yield:** 20 kg/m²/cm.
29. VAGA - AGGREGATES AND MORTARS FOR THE BUILDING INDUSTRY

**SABBIA VAGA**

SABBIA VAGA is a new, freeze-resistant product made from a special mixture of sodium chloride and a calibrated granulometric curve of silica sand, which makes it ideal for protecting road surfaces by reducing the amount of ice and snow that forms and settles on them, thus offering better grip for moving vehicles.

**TECHNICAL DATA:**
- **Composition:** Sodium chloride (NaCl) in a granulometric curve of 0/10 mm and silica sand in a granulometric curve of 0/5 mm.
- **Packaging:** 20 kg bags.

---

**VAGASAL**

VAGASAL is high efficiency, damp sodium chloride in a calibrated granulometric curve of 0/10 mm and is used to reduce the amount of ice and snow that forms and settles on the surface of roads.

**TECHNICAL DATA:**
- **Composition:** Sodium chloride (NaCl) in a granulometric curve of 0/10 mm.
- **Packaging:** 25 kg bags.

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### 29.6 Damp aggregates for the building industry

**FRANTUMATA**

Crushed washed selected aggregate ideal for coarse and rustic finish render, integrating concrete mixes and making floor screeds.

**TECHNICAL DATA:**
- **Particle size:** From 0.1 mm to 4.0 mm.
- **Category:** 0/2 mm according to EN 12620.
- **Category:** 0/2 mm according to EN 13043.
- **Category:** 0/2 mm according to EN 13342.
- **Packaging:** VAGA FRANTUMATA sand is available in:
  - 25 kg bags;
  - bulk;
  - 1.5 t big bags.

---

**MISTA**

Selected, washed aggregates with the CE symbol, suitable for concrete, bitumen conglomerates and site mortar. Ideal for preparing beton on site for small building jobs and for all applications which require a blend of calibrated aggregates with a maximum diameter of 10.0 mm.

**TECHNICAL DATA:**
- **Grain size:** From 0.1 mm to 10.0 mm.
- **Category:** 0/8 mm according to EN 12620.
- **Category:** 0/8 mm according to EN 13139.
- **Packaging:** VAGA MISTA sand is available:
  - in 25 kg bags;
  - bulk;
  - in 1.5 t big bags.
| **TICINO** | TECHNICAL DATA:  
Grain size: from 0.1 mm to 0.9 mm.  
Category: 0/1 mm according to EN 13139.  
Packaging: VAGA TICINO sand is available:  
– in 25 kg bags;  
– bulk;  
– in 1.5 t big bags.  

Selected, washed aggregates with the CE symbol, suitable for concrete, bitumen conglomerates and site mortar. Ideal for preparing finishing mortar and fine render on site. Also used in horticulture and in all those sectors and applications where the use of extra-fine natural sand is required. |
| **VAGLIATA** | TECHNICAL DATA:  
Grain size: from 0.1 mm to 4.0 mm.  
Category: 0/4 mm according to EN 12620.  
Category: 0/4 mm according to EN 13139.  
Packaging: VAGA VAGLIATA sand is available:  
– in 25 kg bags;  
– bulk;  
– in 1.5 t big bags.  

Selected, washed aggregates with the CE symbol, suitable for concrete, bitumen conglomerates and site mortar. Ideal for installation substrates for laying self-locking solid blocks, mixing mortar and rough or rustic-finish render on site, installing floor screeds on site and all applications which require graded sand with a maximum diameter of 4.0 mm. |
| **VAGLIATA Super** | TECHNICAL DATA:  
Particle size: from 0.1 mm to 4.0 mm.  
Category: 0/4 mm according to EN 12620.  
Category: 0/4 mm according to EN 13139.  
Packaging: VAGA VAGLIATA SUPER sand is available:  
– in 25 kg bags;  
– bulk;  
– in 1.5 t big bags.  

Ideal for installation substrates for laying self-locking solid block flooring, mixing coarse and rustic finish mortar and render on site, installing floor screeds on site and all those applications that require graded sand with a maximum diameter of 4.0 mm. |

### 29.7 Dry aggregates for the building industry

| **VG03S** | TECHNICAL DATA:  
Humidity level: less than 0.5%.  
Grain size: from 0.3 mm to 1.0 mm.  
Category: 0/1 mm according to EN 13139.  
Packaging: VAGA VG03S sand is available:  
– in 25 kg bags;  
– bulk;  
– in 1.5 t big bags.  

Ideal for sealing and filling joints when laying self-locking solid blocks, building sand for wood and bricks and removing the following from surfaces: smog, graffiti, dirt and carbonatation; medium-abrasion and depth sand-blasting to improve the bond of varnish, render, etc. to surfaces. |
**VG15**
Ideal for sealing and filling joints when laying self-locking solid blocks, preparing smoothing and finishing compounds on site and for all those applications which require natural fine sand.

**Technical Data:**
- **Humidity level:** less than 0.5%.
- **Grain size:** from 0.6 mm to 1.6 mm.
- **Category:** 0/2 mm according to EN 13139.
- **Packaging:** VAGA VG15 sand is available:
  - in 25 kg bags;
  - bulk;
  - in 1.5 t big bags.

**VG16SS**
Ideal for sealing and filling joints when laying self-locking solid blocks, sandblasting metallic structures when rust and old surface treatments need to be removed, to create clean surfaces and improve the bond of paints.

**Technical Data:**
- **Humidity level:** less than 0.5%.
- **Grain size:** from 0.3 mm to 1.25 mm.
- **Category:** 0/1 mm according to EN 13139.
- **Packaging:** VAGA VG16SS sand is available:
  - in 25 kg bags;
  - bulk;
  - in 1.5 t big bags.

**VG17FS**
Ideal for sealing and filling joints when laying self-locking solid blocks, sandblasting ironwork and highly abrasive, deep-down surface treatments to remove residues of tar, deteriorated concrete, etc.

**Technical Data:**
- **Humidity level:** less than 0.5%.
- **Grain size:** from 0.3 mm to 0.6 mm.
- **Category:** 0/1 mm according to EN 13139.
- **Packaging:** VAGA VG17FS sand is available:
  - in 25 kg bags;
  - bulk;
  - in 1.5 t big bags.