

The background image shows a close-up of a concrete repair project. A person wearing a grey work glove with a green wristband is using a metal trowel with a wooden handle to smooth a patch of grey concrete. To the left, there are two vertical channels in the concrete, each filled with a bright blue adhesive or sealant. A large blue rectangular box is positioned in the upper right quadrant, containing the title text. A thin green horizontal line is located just below the blue box.

CONCRETE REPAIR SOLUTIONS



Mapefer 1K

ONE-COMPONENT CORROSION-INHIBITING CEMENT MORTAR FOR THE PROTECTION OF REINFORCING RODS

TECHNICAL DATA

Consistency of mix:	thixotropic paste
Mixing ratio (with water):	1.0 - 1.1 litres per 5kg bag
Density of mix:	1,800 kg/m ³
Pot life of mix:	approx. 1 hour
Waiting time between each coat:	approx. 2 hours
Bond strength to concrete:	≥ 2.0 MPa
Consumption/Yield:	100 g/m per reinforcing rod with an 8mm diameter and 200g/m per reinforcing rod with 16mm (2mm of applied product)
Packaging:	4x5 kg bags
Storage:	12 months in original packaging



FIELDS OF APPLICATION

- Corrosion-inhibiting protection of concrete reinforcing rods.
- Adhesion improver for concrete repair mortars.



FIELDS OF APPLICATION

- Smoothing surface imperfections and blemishes in concrete before coating.
- Filling of blow holes and surface imperfections in precast units.
- Minor honeycombs up to a maximum of 3mm depth.
- Smoothing irregular surfaces of cement-based renders that have good mechanical strength.



Planitop 110 ME

SINGLE-COMPONENT, NORMAL SETTING CEMENTITIOUS MORTAR FOR SMOOTHING CONCRETE SURFACES

TECHNICAL DATA

Consistency of mix:	thixotropic-trowellable
Mixing ratio (with water):	approx. 6.2 - 6.4 litres per 20 kg bags
Density of mix:	1,600 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	> 20 MPa (after 28 days)
Flexural strength:	> 5 MPa (after 28 days)
Bond strength to concrete:	≥ 0.7 MPa (after 28 days)
Consumption/Yield:	1.3 kg/m ² per mm of thickness
Packaging:	20 kg bags
Storage:	12 months in original packaging



Planitop 400 ME

SHRINKAGE CONTROLLED THIXOTROPIC MORTAR FOR LEVELLING AND RESTORATION OF CONCRETE BY APPLYING A SINGLE LAYER OF MORTAR AT A VARIABLE THICKNESS BETWEEN 2 AND 30MM

TECHNICAL DATA

Consistency of mix:	thixotropic
Mixing ratio (with water):	3.75 - 4.00 litres per 25 kg bag
Density of mix:	2,100 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	35 MPa (after 28 days)
Flexural strength:	7 MPa (after 28 days)
Bond strength to concrete:	> 1.5 MPa (after 28 days)
Consumption/Yield:	18 kg/m ² per cm of thickness
Packaging:	25 kg bags
Storage:	12 months in original packaging



FIELDS OF APPLICATION

- Restoration of corners and front sides of concrete balconies which have been damaged by the rusting of the rebars.
- Repairs to damaged corners, concrete beams, pillars and concrete panels.
- Repairs to precast concrete elements damaged during installation and transport.
- Repairs to damaged concrete piping.
- Repairs to superficial defects present in concrete castings such as honeycombs, holes, cold joints, etc.



FIELDS OF APPLICATION

- Repairing deteriorated areas of concrete, corners of pillars and beams, edges of balconies damaged by the oxidation of the reinforcing rods.
- Reconstruction of the concrete covers in reinforced concrete structures.
- Smoothing surface defects, such as honey combs, construction joints, holes created by formwork spacers, exposed rods, etc.
- Filling of rigid joints.
- Repair of surfaces subjected to heavy abrasion (canals, industrial floors, ramps, etc.)
- Smoothing of diaphragm walls and tunnels.
- Repairing viaducts for highways, roads and railways.



Mapegrout Thixotropic

SHRINKAGE-COMPENSATED FIBRE-REINFORCED MORTAR FOR CONCRETE REPAIR

TECHNICAL DATA

Consistency of mix:	thixotropic
Mixing ratio (with water):	approx. 3.8 - 4.1 litres per 25 kg bags
Density of mix:	2,200 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	> 60 MPa (after 28 days)
Flexural strength:	> 8.5 MPa (after 28 days)
Bond strength to concrete:	> 2 MPa (after 28 days)
Consumption/Yield:	19 kg/m ² per cm of thickness
Packaging:	25 kg bags
Storage:	12 months in original packaging



Mapegrout T60 ME

THIXOTROPIC, SULPHATE AND CHLORIDE RESISTANT, FIBRE-REINFORCED STRUCTURAL REPAIR MORTAR

TECHNICAL DATA

Consistency of mix:	thixotropic
Mixing ratio (with water):	approx. 3.75 - 4.25 litres per 25 kg bags
Density of mix:	2,280 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	> 60 MPa (after 28 days)
Flexural strength:	> 8 MPa (after 28 days)
Bond strength to concrete:	> 2 MPa
Consumption/Yield:	12.6 litres/25kg
Packaging:	25 kg bags
Storage:	12 months in original packaging



FIELDS OF APPLICATION

- Reinstatement of cover to reinforcing steel and re-establishing structural integrity.
- Repairs and reinstatement of manholes, sewerage structures and other utilities.
- Repairs to industrial facilities including oil and gas, marine and other structures operating under extreme working environments.
- Water retaining and excluding structures, tunnels and canal linings.
- Filling of rigid joints (between base and column, cracks in floors, joints between walls, etc.).
- Repair of precast concrete elements.



FIELDS OF APPLICATION

- Repairs to floors that require resistance to oils, lubricants and which are subject to heavy abrasion such as those typically found in industrial environments.
- All types of structural repair requiring application by trowel or spray.
- Repair of load bearing elements such as reinforced columns, pre-stressed or post-tensioned beams and slabs, etc.
- Repairs to concrete in marine environments or those that require resistance to chloride ingress.
- Repair and reinstatement of concrete cover damaged by corroded reinforcing steel.
- Filling of rigid joints (between base and column, cracks in floors, joints between walls, etc.).



Mapegrout T80

SINGLE COMPONENT SULPHATE AND CHLORIDE RESISTANT, FIBRE-REINFORCED THIXOTROPIC MORTAR FOR THE REPAIR OF CONCRETE

TECHNICAL DATA

Consistency of mix:	thixotropic
Mixing ratio (with water):	approx. 3.75 - 4.25 litres per 25 kg bags
Density of mix:	2,195 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	> 80 MPa (after 28 days)
Flexural strength:	10 MPa (after 28 days)
Consumption/Yield:	13 litres/25kg
Packaging:	25 kg bags
Storage:	12 months in original packaging



Mapegrout ME05

**HIGH PERFORMANCE,
SHRINKAGE-COMPENSATED,
HIGH-FLOW MICRO-CONCRETE
AND THICK SECTION GROUT**

TECHNICAL DATA

Consistency of mix:	fluid
Mixing ratio:	one 25 kg bag of Mapegrout ME05 with 3.1 - 3.3 litres of water
Density of mix:	2,200kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	min 65 N/mm ² (after 28 days)
Flexural strength:	10 N/mm ² (after 28 days)
Consumption/Yield:	12.7 litres/25 kg
Packaging:	25 kg bags
Storage:	12 months in original packaging



FIELDS OF APPLICATION

- Structural reinstatement of new and old reinforced concrete elements such as beams and columns.
- Repair and re-profiling of piles.
- Particularly suitable for reinstatement of honeycombed concrete and or areas of congested reinforcement.
- Reinstatement of floor beams and slabs.
- Grouting of precast elements.
- Grouting of machine and turbine baseplates, bridge bearings and crane rails.



FIELDS OF APPLICATION

- Structural reinstatement of reinforced concrete beams and pillars.
- Reinstatement of floor beams and slabs after scarification of deteriorated areas.
- Restoring concrete floors (industrial, road and airport).
- Grouting of machine baseplates, bridge bearing.
- Repair and reprofiling of pile tops.



Mapegrout ME06

HIGH STRENGTH, SHRINKAGE-COMPENSATED, SUPER FLOW MICRO-CONCRETE

TECHNICAL DATA

Consistency of mix:	fluid
Mixing ratio:	one 25 kg bag of Mapegrout ME06 with 3.2 - 3.4 litres of water
Density of mix:	2,300 kg/m ³
Pot life of mix:	approx. 1 hour
Compressive strength:	75 N/mm ² (after 28 days)
Flexural strength:	10 N/mm ² (after 28 days)
Consumption/Yield:	12.3 litres/25 kg
Packaging:	25 kg bags
Storage:	12 months in original packaging



Planitop Fast 330

QUICK-SETTING, FIBRE-REINFORCED CEMENTITIOUS MORTAR FOR INTERNAL AND EXTERNAL FLOORS AND WALLS, APPLIED AT A THICKNESS FROM 3 TO 30MM TO SMOOTH OUT IRREGULARITIES

TECHNICAL DATA

Mixing ratio:	4.5 - 5 litres of water per 25 kg bag
Density of mix:	1,750 kg/m ³
Compressive strength:	> 20 MPa (after 28 days)
Bond strength to concrete:	≥ 2.0 MPa (after 28 days)
Consumption/Yield:	approx. 1.45 kg/m ² per mm of thickness (1cm thick: 14.5 kg/m ²)
Packaging:	25 kg bags
Storage:	12 months in original packaging



FIELDS OF APPLICATION

- Levelling reinforced concrete surfaces in swimming pools to make them ready to receive (after just 24 hours at +20°C) waterproofing systems or, after 4 hours at +20°C, for directly laying all types of ceramics and mosaics.
- Smoothing irregular internal and external substrates to quickly make them suitable for laying ceramic and stone or for waterproofing with liquid membrane or flexible cementitious systems.
- Repairing or forming slopes on terraces and balconies.



FIELDS OF APPLICATION

- Stopping water leaks in basements, subways and below grade structures in general.
- Stopping water leaks in tanks above ground.
- Waterproof sealing of rigid joints between walls and floor slabs.
- Waterproof sealing of cracks and holes.
- Reinstatement of layers of mortar in damp brickwork structures before waterproofing with **Idrosilex Pronto**.



Lamposilex

ULTRA-FAST SETTING AND CURING HYDRAULIC BINDER FOR STOPPING WATER LEAKS

TECHNICAL DATA

Consistency of mix:	plastic
Mixing ratio (by weight):	100 g Lamposilex to 28 g water
Mixing ratio (by volume):	2.5 parts by Lamposilex to 1 part water
Pot life of mix:	approx. 1 minute
Compressive strength:	46 N/mm ² (after 28 days)
Flexural strength:	9 N/mm ² (after 28 days)
Consumption/Yield:	1.8 kg of Lamposilex will fill a one-dm ³ cavity
Packaging:	5 kg drums
Storage:	store the product in a dry place indoors



Resfoam 1 KM/ Resfoam 1 KM Flex

**ULTRA FLUID, ONE-COMPONENT
POLYURETHANE INJECTION RESIN
WITH ADJUSTABLE REACTION
TIMES, FOR WATERPROOFING
STRUCTURES, GROUNDS AND
ROCKS SUBJECT TO INTENSE
WATER SEEPAGE**

TECHNICAL DATA

	- Resfoam 1 KM - Resfoam 1 KM AKS	- Resfoam 1 KM Flex - Resfoam 1 KM Flex AKS
Density:	- 1.21 g/cm ³ at +20°C - 1.10 g/cm ³ at +20°C	- 1,100 kg/l at +25°C - 0.995 kg/l ± 0.003 at +25°C
Viscosity:	- 54 mPa.s ± 10 - 25 mPa.s ± 5	- 2,500 mPa.s ± 500 - 12 mPa.s ± 5
Consumption/ Yield (In open air):	1 kg of Resfoam 1 KM + 0.1 kg of Resfoam 1 KM AKS produce 50 litres of expanded foam on contact with 0.1 litres of water	1 kg of Resfoam 1 KM Flex + 0.05 kg of Resfoam 1 KM Flex AKS produce 40 litres of expanded foam on contact with 0.1 litres of water
Packaging:	- 20 kg plastic drums - 1 kg plastic drums	- 20 kg metal drum - 1 kg plastic drum
Storage:	6 months in original packaging	6 months in original packaging



FIELDS OF APPLICATION

- Waterproofing tunnels subject to water seepage through cracks or cold joints between ashlars.
- Waterproofing wells or hydraulic structures that leak water through working joints or cracks.
- Repairing cracks in dams, canals and crest gates, even under the water bed.
- Sealing cracks in floorings or damp foundations saturated with water.
- Waterproofing concrete surfaces and cracked masonry subject to water seepage, also under pressure.
- Waterproofing rocks subject to water seepage.
- Waterproofing permeable grounds saturated with water.



FIELDS OF APPLICATION

- Anchoring close to edges or when there is a limited pitch between each anchor.
- Anchoring elements in place, such as:
 - strengthening rods in construction joints
 - immersed anchors and anchors in damp environments
 - under water anchors
 - anchors in marine and industrial environments
 - overhead crane and tram rails
 - industrial motors
 - aerials and signs
 - pylons
 - safety barriers
 - highway guard-rails










Mapefix EP 385/585

PURE EPOXY, RESIN-BASED CHEMICAL ANCHOR FOR STRUCTURAL LOADS

TECHNICAL DATA

Appearance:	thixotropic paste
Colour:	light grey
In-service temperature range:	from -40°C to +72°C
Compressive strength:	120 N/mm ²
Flexural strength:	42 N/mm ²
Modulus of elasticity:	10,800 N/mm ²
Consumption/Yield:	according to the size of hole to be filled
Packaging:	boxes of 12
Storage:	24 months in original packaging

 Core drill: core drilled hole M10 ÷ M24 Ø10 ÷ Ø25	 QP7: non cracked concrete M8 ÷ M30 Ø8 ÷ Ø32
 QP1: cracked and non cracked concrete M12 ÷ M30 Ø12 ÷ Ø32	 C1: Seismic performance M12 ÷ M30 Ø12 ÷ Ø32
	
 Rebar: post installed rebar Ø8 ÷ Ø25	



OTHER CONCRETE REPAIR PRODUCTS

STRUCTURAL STRENGTHENING PRODUCTS FOR BEAMS, COLUMNS, SLABS, CULVERTS & BRIDGES



Carboplate

Pultruded carbon fibre plate with a double plastic protective film



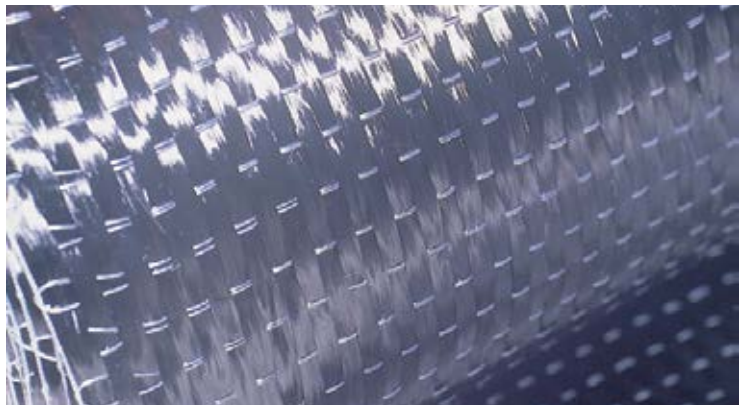
Adesilex PG2

Two-component thixotropic epoxy adhesive with long workability time for structural bonds



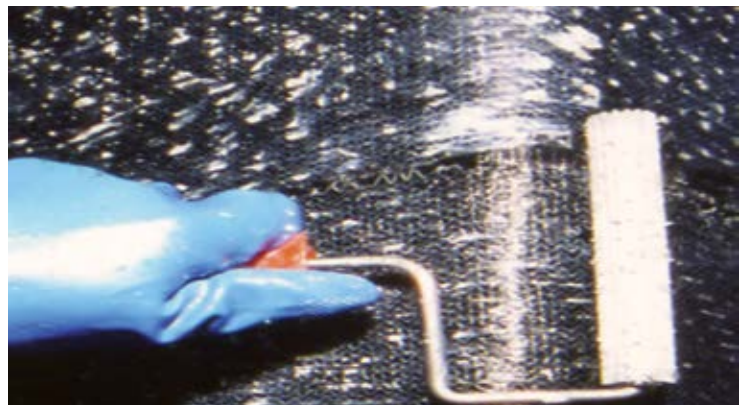
MapeWrap C UNI-AX

High strength uni-directional carbon fibre fabric with high modulus of elasticity



MapeWrap 31

Medium viscosity epoxy resin for impregnation of MapeWrap with "dry system"





MapeWrap Primer 1

Epoxy primer specific for the MapeWrap system



MapeWrap C FIOCCO

High-strength carbon fibre cord to be impregnated with **MapeWrap 21** to make "structural connections"



GALVANIC CATHODIC PROTECTION



Mapeshield I

Pure zinc anodes coated with a special conductive paste, for galvanic cathodic protection against corrosion of steel reinforcement rods in new structures & structures requiring repair



Mapeshield E 25

Adhesive zinc plates applied directly on the surface of structures for galvanic cathodic protection against the corrosion of steel reinforcement rods





Mapeshield S

Zinc plate with adhesive backing for galvanic cathodic protection against the corrosion of steel structures exposed to atmospheric conditions



FINE SMOOTHING OF HYDRAULIC WORKS ON CONCRETE SURFACES



Mapefinish

Two-component cementitious mortar for finishing concrete surfaces. The product is used to level small imperfections of poured concrete and to smooth surfaces after repairs



HIGH-DUCTILITY SMOOTHING COMPOUND



Planitop HDM

Two-component, cement based, fibre reinforced mortar for "reinforced" masonry structures in conjunction with **Mapeggrid** meshes and smoothing & levelling surfaces in concrete, stone & tuff



PROTECTIVE ELASTIC SMOOTHING COMPOUNDS



Mapelastic and Mapelastic Smart

Elastic two-component mortars, applied by trowel or spraying, on concrete surfaces in a thickness of 2 mm



HIGH FLOW GROUTS



Mapegrout SV ME

Fast-setting and hardening, compensated-shrinkage easy-flow mortar for repairing concrete and for fixing inspection shafts, manholes and highway coating materials



Mapegrout Hi-Flow

Fibre-reinforced, controlled-shrinkage mortar for repairing concrete



Mapefill GP ME

General purpose non-shrink cementitious grout



Mapefill SP ME

Premium super flow non-shrink cementitious grout



CONCRETE REPAIR SOLUTIONS

(UAE)



Technical documentation

From the technical area menu you can view the technical documentation divided per product lines and type of document.

MAPEI CONSTRUCTION CHEMICALS LLC
P.O Box: 73869, Dubai - United Arab Emirates
Tel. +971 4 815 6666 / Fax: +971 4 815 6655
E-mail: info@mapei.ae / Website: www.mapei.ae

MAPEI DOHA LLC
P.O Box: 32522, Doha - Qatar
Tel. +974 4423 1308 / Fax: +974 4423 1100
E-mail: info@mapei.qa / Website: www.mapei.qa

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