The advantages of choosing Mapelastic:
- no demolition work required
- applied in thin layers
- resistant to freezing weather
- resistant to UV rays
- compatible with adhesives used to bond wall and floor coverings

Mapelastic
The most popular elastic cementitious waterproofing product for more than 20 years

The system that has been waterproofing and protecting balconies, terraces, and swimming pools for more than 20 years, offering high flexibility even at low temperatures.
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C.P. MK688330 (GB) 03/2014

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

more info
Mapelastic Smart

Two-component, high-flexibility cementitious mortar (with crack bridging capacity > 2 mm) applied by trowel or roller for waterproofing balconies, terraces, bathrooms and swimming pools.

**Advantages**
- Remains flexible at very low temperatures (-20°C).
- More than 20 years experience and more than 300 million m² successfully waterproofed.
- Excellent elongation at failure (120%).
- CE-certified product in compliance with EN 1504-2 and EN 14891 standards.
- Excellent mechanical characteristics thanks to the use of Mapetesel reinforcement.
- Fluid consistency for easy application.
- Resistant to UV rays.
- Suitable for any type of substrate.
- For bathrooms, showers, terraces, balconies, etc. prior to installing ceramic, marble, natural stone, etc. wall and floor coverings.

**Some Application Examples**
- Waterproofing water channels and facing walls in dams and storage tanks.
- Waterproofing concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium and sulphate salts.
- Waterproofing concrete with an insufficient concrete cover to the steel reinforcement.
- Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout and Mapeband ranges.
- Expansion joints in roads, hydraulic tunnels and flat roofs.
- Liquid sheaths.

**Performance Figures**
- Adhesion to concrete according to EN 1540:
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5 N/mm²
- Adhesion to substrates according to EN 1540:
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5 N/mm²
- Initial performance (thickness 2.0 mm):
  - class A1 (0.1 mm)
  - class A5 (-20°C)

**Accessories**
- Mapenet 150
  - Alkal-resistant fiberglass mesh (in compliance with ETA 04/004 guidelines).
  - Used to reinforce protective waterproofing systems, anti-fracture membranes and thermal insulation.

- Mapetesel
  - Fully permeable to water.
  - Used to reinforce waterproofing membranes.

- Mapeband
  - Felt backed alkali-resistant tape for cementitious waterproofing systems and liquid membranes.
  - Suitable for use on floors and walls.
  - For bathrooms, showers, terraces, balconies, etc. prior to installing ceramic, marble, natural stone, etc. wall and floor coverings.

- Mapeband TPE
  - TPE tape for elastic sealing and waterproofing of structural joints with movements up to ± 5 mm.
  - Expansion joints in roads, hydraulic tunnels and flat roofs.

- Drain Front
  - TPE angular pipe union for terraces and balconies.

- Drain Vertical/Drain Lateral
  - Kit for installing floor drains, ideal for draining off water from terraces, balconies, bathrooms, boiler rooms, wash-rooms, etc.
Mapelastic Smart

Two-component, high-flexibility cementitious mortar with (crack bridging capacity > 2 mm) applied by trowel or roller for waterproofing balconies, terraces, bathrooms and swimming pools.

Mapelastic Smart

Some application examples:
- Waterproofing concrete water storage tanks.
- Waterproofing concrete water channels and facing walls in dams and storage tanks.
- Waterproofing water channels and facing walls in dams and storage tanks.
- Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
- Elastic skim coats on concrete structures with thin sections, including those subjected to small deformations when under load (e.g. precast panels).
- Protection against the penetration of water and aggressive atmospheric agents for render and concrete with shrinkage cracks.
- Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
- Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium sulphate salts.

Advantages:
- Remains flexible at very low temperatures (-20°C).
- More than 20 years experience and more than 300 million m² successfully waterproofed.
- CE-certified product in compliance with EN 1504-2 and EN 14891 standards.
- Protects concrete surfaces against CO₂ penetration (carbonation) for more than 50 years.
- More than 20 years experience and more than 300 million m² successfully waterproofed.
- Remains flexible at very low temperatures (-20°C).
- Protection against the penetration of water and aggressive atmospheric agents for cementitious render and concrete with shrinkage cracks or subjected to small movements due to temperature variations or dynamic stresses from vehicles.
- Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout or Plastinap ranges.
- Protection against the penetration of aggressive agents for structures with an insufficient concrete cover to steel reinforcement.
- Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium sulphate salts.

Advantages:
- High performance: a 2 mm thick film can cover cracks up to 2 mm wide.
- CE-certified product in compliance with EN 1504-2 and EN 14891 standards.
- Excellent elongation at failure (120%).
- Excellent mechanical characteristics thanks to the use of Mapeotes Sel reinforcement.
- Fluid consistency for easy application.
- Resistant to UV rays.
- May also be applied on existing wall and floor coverings.
- Compatible with ceramic, mosaic and natural stone wall and floor coverings.

Accessories

Some application examples:
- Waterproofing water channels and facing walls in dams and storage tanks.
- Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
- Protective elastic coats on new and repaired concrete structures subjected to small deformations when under load.
- Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
- Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium sulphate salts.

Advantages:
- High performance: a 2 mm thick film can cover cracks up to 2 mm wide.
- CE-certified product in compliance with EN 1504-2 and EN 14891 standards.
- Excellent elongation at failure (120%).
- Excellent mechanical characteristics thanks to the use of Mapeotes Sel reinforcement.
- Fluid consistency for easy application.
- Resistant to UV rays.
- May also be applied on existing wall and floor coverings.
- Compatible with ceramic, mosaic and natural stone wall and floor coverings.

Performance Figures

<table>
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<th>Property</th>
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<th>Class A3 (-20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion to concrete according to EN 1542</td>
<td>≥ 0.5</td>
<td>≥ 0.5</td>
</tr>
<tr>
<td>Adhesion to hydrophilic substrates</td>
<td>≥ 0.5</td>
<td>≥ 0.5</td>
</tr>
<tr>
<td>Adhesion to concrete according to EN 1542 (with traffic)</td>
<td>≥ 1.5</td>
<td>≥ 1.5</td>
</tr>
<tr>
<td>Adhesion to hydrophilic substrates (with traffic)</td>
<td>≥ 1.5</td>
<td>≥ 1.5</td>
</tr>
<tr>
<td>Adhesion after application of heat source according to EN 14891-A6.6 (N/mm²)</td>
<td>≥ 0.6</td>
<td>≥ 0.6</td>
</tr>
<tr>
<td>Adhesion after freeze/thaw cycles according to EN 14891-A6.6 (N/mm²)</td>
<td>≥ 0.6</td>
<td>≥ 0.6</td>
</tr>
</tbody>
</table>
Mapelastic Smart

LIQUID-APPLIED WATER

• Water channels and facing walls in dams and storage tanks.
• Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. prior to installing ceramic wall and floor coverings.
• Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
• Elastic skim coats on concrete structures with thin sections, including those subjected to small deformations when under load (e.g. prefabricated panels).
• Protection against the penetration of water and aggressive atmospheric agents for concrete and concrete with shrinkage cracks.
• Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
• Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium and sulphate salts.

ADVANTAGES
• Remains flexible at very low temperatures (−20°C).
• More than 20 years experience and more than 300 million m² successfully waterproofed.
• CE-certified product in compliance with EN 1366-2 and EN 14891 standards.
• Protects concrete surfaces against CO₂ penetration (carbonation) for more than 50 years.
• Excellent elongation at failure (120%).
• Excellent mechanical characteristics thanks to the use of Mapetex Sel reinforcement.
• Fluid consistency for easy application.
• Resistant to UV rays.
• May also be applied on existing wall and floor coverings.
• Compatible with ceramic, mosaic and natural stone wall and floor coverings.

Two-component, high-flexibility cementitious mortar (with crack-bridging capacity > 2 mm) applied by trowel or roller for waterproofing balconies, terraces, bathrooms and swimming pools.

Technical data

<table>
<thead>
<tr>
<th>Performance figures</th>
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<th>Adhesion after freeze-thaw cycles according to EN 14891-A.6.5 (N/mm²):</th>
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<tr>
<td></td>
<td></td>
<td>Acceptable limits (mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>from class A (0.1 mm)</td>
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<tr>
<td></td>
<td></td>
<td>to class C (1.5 mm)</td>
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<tr>
<td></td>
<td>2 : 1</td>
<td>&gt; 0.5</td>
</tr>
<tr>
<td></td>
<td>3 : 1</td>
<td>&gt; 0.5</td>
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<td>&gt; 0.5</td>
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</tbody>
</table>

Drain Vertical/Drain Lateral
• Kit for installing floor drains, ideal for draining off water from terraces, balconies, bathrooms, boiler rooms, wash-baths, etc.
• Flexible suction pipes for drainage networks.

Efficiency of Mapei waterproofing products is also guaranteed by the complementary products which complete the system.

Mapelastic Smart

LIQUID-APPLIED WATER

Two-component cementitious mortar for waterproofing balconies, terraces, bathrooms and swimming pools that remains elastic down to −20°C.

Advantages:
• Waterproofing water channels and facing walls in dams and storage tanks.
• Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. prior to installing ceramic wall and floor coverings.
• Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
• Elastic skim coats on concrete structures with thin sections, including those subjected to small deformations when under load (e.g. prefabricated panels).
• Protection against the penetration of water and aggressive atmospheric agents for concrete and concrete with shrinkage cracks.
• Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
• Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium and sulphate salts.

Advantages:
• High performance: a 2 mm thick film can cover cracks up to 2 mm wide.
• CE-certified product in compliance with EN 1366-2 and EN 14891 standards.
• Protects concrete surfaces against CO₂ penetration (carbonation) for more than 50 years.
• Excellent elongation at failure (120%).
• Excellent mechanical characteristics thanks to the use of Mapetex Sel reinforcement.
• Fluid consistency for easy application.
• Resistant to UV rays.
• May also be applied on existing wall and floor coverings.
• Compatible with ceramic, mosaic and natural stone wall and floor coverings.

The efficiency of Mapei waterproofing products is also guaranteed by the complementary products which complete the system.

Mapelastic Smart

LIQUID-APPLIED WATER

Two-component, high-flexibility cementitious mortar (with crack-bridging capacity > 2 mm) applied by trowel or roller for waterproofing balconies, terraces, bathrooms and swimming pools.

Some application examples:
• Waterproofing water channels and facing walls in dams and storage tanks.
• Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. prior to installing ceramic wall and floor coverings.
• Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
• Elastic skim coats on concrete structures with thin sections, including those subjected to small deformations when under load (e.g. prefabricated panels).
• Protection against the penetration of water and aggressive atmospheric agents for concrete and concrete with shrinkage cracks.
• Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
• Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium and sulphate salts.

Advantages:
• Remains flexible at very low temperatures (−20°C).
• More than 20 years experience and more than 300 million m² successfully waterproofed.
• CE-certified product in compliance with EN 1366-2 and EN 14891 standards.
• Protects concrete surfaces against CO₂ penetration (carbonation) for more than 50 years.
• Excellent elongation at failure (120%).
• Excellent mechanical characteristics thanks to the use of Mapetex Sel reinforcement.
• Fluid consistency for easy application.
• Resistant to UV rays.
• May also be applied on existing wall and floor coverings.
• Compatible with ceramic, mosaic and natural stone wall and floor coverings.
Two-component, cementitious mortar for waterproofing balconies, terraces, bathrooms and swimming pools that remains elastic down to -20°C

Advantages:
- Remains flexible at very low temperatures (-20°C).
- More than 20 years of experience and more than 300 million m² successfully waterproofed.
- Resistant to UV rays.
- Fluid consistency for easy application.
- Excellent mechanical characteristics thanks to the use of reinforcement.
- Excellent elongation at failure (120%).
- CE-certified product in compliance with EN 1504-2 and EN 14891 standards.

Application	
- Waterprooﬁng bathrooms, showers, balconies, terraces, swimming pools, etc.
- Prior to installing ceramic wall and floor coverings.
- On existing wall and floor coverings.
- On concrete and masonry substrates.
- In internal and external environments.

Properties:
- Adhesion after freeze-thaw cycles according to EN 14891-A.6.5 (N/mm²):
  - after 28 days at 20°C and 50% R.H.: > 0.5
  - after 28 days at 20°C and 50% R.H. (minimum crack width 0.2 mm): > 0.5
- Adhesion to concrete according to EN 1542:
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5
- Static crack bridging at -20°C according to EN 1062-7
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5
- Elasticity according to DIN 53504 mod. (elongation):
  - after 28 days at 20°C and 50% R.H. (mm):
    - maximum crack width: ≥ 0.2

The efficiency of Mapei waterproofing products is also guaranteed by the complementary products which complete the system.

Mapelastic Smart

Two-component, high-elasticity cementitious mortar (with crack bridging capacity > 2 mm) applied by trowel or roller for waterproofing balconies, terraces, bathrooms and swimming pools.

Advantages:
- Fully permeable to water.
- Resistant to UV rays.
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. prior to installing ceramic wall and floor coverings.
- Suitable for use on ﬂoors and walls.
- Suitable for any type of substrate.
- For bathrooms, showers, balconies, terraces, etc. prior to installing ceramic, marble, natural stone, etc. wall and floor coverings.
- Elastic skim coats on concrete structures with thin sections, including those subjected to movements due to temperature variations or dynamic stresses from vehicles.

Application:
- Waterproofing water channels and facing walls in dams and storage tanks.
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. prior to installing ceramic wall and floor coverings.
- Waterproofing the surface of gypsum, render and cement, lightweight cement blocks and marine plywood.
- Elastic skim coats on concrete structures with thin sections, including those subjected to deformations when under load (e.g. precast concrete panels).
- Protection against the penetration of water and aggressive atmospheric agents for render and concrete with shrinkage cracks.
- Protection against the penetration of carbon dioxide for concrete piles and beams on road and railway viaducts after repair work with products from the Mapegrout range and structures with an insufficient concrete cover to the steel reinforcement.
- Protection for concrete surfaces in contact with seawater, de-icing salts such as sodium chloride and calcium and sulphate salts.

Performance figures:
- Initial performance with no traffic according to EN 1504-A.3 (mm):
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5
  - after 28 days at 20°C and 50% R.H. (minimum crack width 0.2 mm): ≥ 0.5
- Adhesion to concrete according to EN 1542:
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5
- Static crack bridging at -20°C according to EN 1062-7 (maximum crack width 0.2 mm):
  - after 28 days at 20°C and 50% R.H.: ≥ 0.5
- Elasticity according to DIN 53504 mod. (elongation):
  - after 28 days at 20°C and 50% R.H. (mm):
    - maximum crack width: ≥ 0.2

Accessories

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Mapelastic

3.5 mm of Mapeband TPE

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