Selection chart of waterproofing products
WATERPROOFING BELOW-GRADE FOUNDATIONS OF NEW CONSTRUCTIONS

... REINFORCED CONCRETE FOUNDATIONS IN OPEN EXCAVATIONS

- self-adhesive polymer bitumen membrane produced by Polyglass S.p.A. Adesoguard
- Mapelastic Foundation: two-component, flexible cementitious mortar after applying a coat of Primer 3296
- bentonite grout
- Mapeproof Mastic: washers
- Mapeproof CD: bentonite sheet
- Mapelastic Foundation: structure in concrete with Dynamon admixture
- water-expanding bentonite jointing strip Idrostop B25
- bentonite sheet
- Mapeproof: lean concrete

EN 1504-2
IN COMPLIANCE WITH EUROPEAN STANDARD
SURFACE PROTECTION SYSTEMS FOR CONCRETE
EN 1504-2 (C)
PI-MC-IR
PRINCIPLES
When a new building site is opened, one of the first problems is to install and waterproof the foundations so that, once completed, any rooms in the building below ground level will remain dry and usable by the occupants.

The subject of waterproofing is particularly significant when a structure needs to be completely isolated from any surrounding water, and a continuous, waterproof “container” must be created around the structure under construction.

Mapei offers a complete range of solutions for waterproofing new structures constructed below ground level, from bentonite sheets to cementitious products and bitumen emulsions. The range also includes all the accessories materials required, such as jointing materials for construction joints and structural joints, to form a perfectly watertight system, even around construction details, protrusions and through elements.

**... REINFORCED CONCRETE FOUNDATIONS IN EXCAVATIONS WITH TEMPORARY SHORING**
RENOVATING STRUCTURES BELOW GROUND LEVEL WITH WATER UNDER PRESSURE

... EXISTING MASONRY STRUCTURES WITH WATER IN COUNTERTHRUST

- solid brick masonry
- regulating layer Planitop HDM Maxi
- Mapelastic Foundation
  - two-component, flexible cementitious mortar
  - after applying a coat of Primer 3296
- base scratch coat
- Poromap Rinzaffo
- dehumidifying render
- Poromap Intonaco
- transpirant skim layer
- Poromap Finitura
- in compliance with European Standard SURFACE PROTECTION SYSTEMS FOR CONCRETE EN 1504-2 (C)
- in compliance with European Standard REPAIR MORTAR R2 EN 1504-3
- in compliance with European Standard RENDERING AND PLASTERING MORTAR IN COMPLIANCE WITH EUROPEAN STANDARD GP-CS III EN 998-1
- in compliance with European Standard MASONRY MORTAR IN COMPLIANCE WITH EUROPEAN STANDARD G-M25 EN 998-2
- in compliance with European Standard C1: Seismic performance OP1: cracked and non-cracked concrete
- Rebar: post installed rebar
- Mapelastic Foundation
  - two-component, flexible cementitious mortar
  - after applying a coat of Primer 3296
- Ultracolor Plus tiles adhesive
- Keraflex structure in concrete with Dynamon admixture
- Mapeproof Mastic
  - bentonite sheet
- Mapeproof
  - water-expanding bentonite jointing strip
- Idrostop Soft
  - chemical anchor for structural loads
- Mapefix VE SF
- existing structure
How many times have we been in an unpleasant room below ground level, such as a basement or cellar, where damp and humidity have caused stains to form on the walls and there is an unpleasant smell?

For all existing structures with problems caused by infiltrations into rooms below ground level, whether they have only been recently built or are more ancient, Mapei has developed various restoration systems that guarantee wellbeing and comfort in such environments. These methods have various degrees of invasiveness and include special attention to the minor details right up to complete linings for existing structures, so that they are isolated from any surrounding water and areas below ground level are given a new lease of life.
Toilets, swimming pools, spas, balconies and terraces: all environments to be protected from water.

In order to waterproof these environments efficiently it is important to:
- protect structures from deterioration;
- improve rooms’ comfort;
- reduce maintenance costs to the minimum.

That’s why MAPEI always offers to their customers different systems for specific problems and always has the right product with suitable accessories to solve any problem.
**BATHROOMS and DAMP ENVIRONMENTS**

**Mapelastic**
- Two-component flexible cementitious mortar.
- For protection and waterproofing.
- For structures particularly subject to cracking.
- Used in conjunction with Mapenet 150. Mapelastic may also be used on surfaces particularly stressed or crazed and helps to improve both elongation at break and crack bridging.

**Mapelastic Smart**
- Two-component, high-flexibility cementitious mortar.
- For protection and waterproofing.
- Used in conjunction with Mapenet 150 and Mapetex Sel. Mapelastic may also be used on surfaces particularly stressed or crazed and helps to improve both elongation at break and crack bridging.

**Mapelastic AquaDefense**
- Ready-to-use, flexible, liquid waterproofing membrane.
- Solvent-free.
- Ultra-quick drying.
- For internal and external waterproofing applications.
- Ceramic and stone material may be applied after only 4 hours.

**Monolastic**
- One-component, flexible cementitious mortar.
- It bonds extremely well to all surfaces in concrete, masonry, ceramic and marble.

**Mapegum WPS**
- Fast drying, liquid elastic membrane for interior waterproofing.
- Solvent-free.
- Ready-to-use.
- Application: smooth trowel, roller or spray in two crossing coats (1 mm each).
- For thin thicknesses (ca. 1 mm max. per coat).

**Mapeband**
- Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid membranes.
- For walls and floors.
- For any type of substrate.
- For baths, showers, terraces, balconies, etc., that are to be tiled with ceramic tiles, marble, natural stones.

**Mapeband TPE**
- TPE tape for flexible sealing and waterproofing structural joints subject to movements up to 5 or 10 mm.
- For expansion joints in road-works, water tunnels and covering applications.

**Mapeband SA**
- Self-adhesive butyl tape with alkali-resistant, non-woven fabric for elastic waterproofing systems.
- Seals between different types of material and waterproofing narrow fillets in tight spaces.
- May be applied on various substrates after suitable preparation and application of a suitable primer.
### BALCONIES & TERRACES

<table>
<thead>
<tr>
<th>Product</th>
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<td>Hydro-expansive, rubber-based hydrophilic sealant paste in cartridges, applied using an extrusion gun. For waterproof, flexible seals in cracks in reinforced cement and in prefabricated elements infiltrated by water.</td>
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<td><strong>Mapenet 150</strong></td>
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<td><strong>Mapetable</strong></td>
<td>Non-woven, macro-holed polypropylene fabric.</td>
<td>Waterproofing, with synthetic polypropylene fibres. For reinforcing waterproofing membranes.</td>
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<td><strong>Drain Vertical</strong></td>
<td>Floor-drain kit.</td>
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### SWIMMING POOLS

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**Mapelastic AquaDefense**
- Ready-to-use, flexible, liquid waterproofing membrane.
- Solvent-free.
- For internal and external waterproofing applications.
- Ceramic and stone material may be applied after only 4 hours.

**Monolastic**
- One-component, flexible cementitious mortar.
- It bonds extremely well to all surfaces in concrete, masonry, ceramic and marble.

**Mapetex Sel**
- Non-woven, macro-holed polypropylene fabric.
- Waterproofing, with synthetic polypropylene fibres.
- For reinforcing waterproofing membranes.

**Aquaflex Roof**
- Ready-to-use, flexible, liquid membrane, with fibres for continuous waterproofing layers on exposed external surfaces.
- Set to light foot traffic.
- Storage: 24 month in original packaging.
- For continuous waterproofing.

**Aquaflex Roof HR**
- Fibre-filled liquid membrane in water emulsion with high solar reflectance and thermal emittance with a high SRI solar reflectance index (105).
- Ready-for-use.
- Lowers the surface temperature of the roof by more than 50% compared with dark coloured roofs.
- For continuous exposed waterproofing layers.
- High reflectance white colour.

**Mapelastic AquaDefense**
- Alkali-resistant glass fibre mesh (in compliance with ETAG 004 guide).
- For reinforcing waterproofing protections, anti-fracture membranes and insulation coatings.

**Mapenet 150**
- Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid membranes.
- For walls and floors.
- For any type of substrate.
- For baths, showers, terraces, balconies, etc., that are to be tiled with ceramic tiles, marble, natural stones.

**Mapeband TPE**
- TPE tape for flexible sealing and waterproofing structural joints subject to movements up to 5 or 10 mm.
- For expansion joints in road works, water tunnels and covering applications.

**Mapeband**
- Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid membranes.
- For walls and floors.
- For any type of substrate.
- For baths, showers, terraces, balconies, etc., that are to be tiled with ceramic tiles, marble, natural stones.

**Drain Vertical Drain Lateral**
- Floor-drain kit.

**Drain Front**
- TPE angular outlet for terraces and balconies.
- Available in ivory and copper colour.

**Mapeband SA**
- Self-adhesive butyl tape with alkali-resistant, non-woven fabric for elastic waterproofing systems.
- Seals between different types of material and waterproofing narrow joints in tight spaces.
- May be applied on various substrates after suitable preparation and application of a suitable primer.
Underground structures level: the parts of a building which are most often in contact with water and aggressive elements in the ground.

All structures below ground level come into contact with the humidity in the ground or with the water table and must be protected to guarantee the life-span of buildings. If no suitable protection is applied, there are no construction materials with the capacity of resisting the various factors which are present below ground level. MAPEI offers a wide array of repair and protection solutions which guarantee an efficient solution for any construction element.
Mapeproof

- Bentonite waterproofing sheets for underground structures.
- Suitable for both horizontal and vertical surfaces.
- For both pre cast and post cast.

Mapeproof LW

- Bentonite waterproofing sheets for underground structures.
- For use on horizontal and vertical structures below ground level with a maximum water table of 5 metres.
- For both pre cast and post cast.

Mapeproof CD

- Polyethylene washers.
- For fastening Mapeproof and Mapeproof LW bentonite sheets in place on horizontal and vertical surfaces.
- To be used with both hammer and nails or with a nail gun.

Mapeproof Mastic

- Bentonite paste made from natural sodium bentonite and plasticising admixtures for sealing elements which pass through surfaces.
- Extremely easy-to-use.
- It is used for sealing elements which pass through surfaces (for sealing framework and small honeycomb voids, to blend in edges and corners and for localised repairs to bentonite sheets).
- Repairs localised in bentonite sheets.

Idrostop

- Hydrophilic expandable rubber section for watertight construction joints.
- Specially designed to form watertight construction joints up to a hydraulic pressure of 5 atm.
- Bentonite-free.
- Creates an active barrier against pressurized water (positive and negative).
- For concrete, metal, PVC and natural stone.
- Bond Idrostop to the substrate with Idrostop Mastic.

Mapeproof Swell

- Hydro-expansive, rubber-based hydrophilic sealant paste in cartridges, applied using an extrusion gun.
- For waterproof, flexible seals in cracks in reinforced cement and in prefabricated elements infiltrated by water.

Idrostop B25

- Waterstop profile made from natural sodium bentonite and polymers.
- Compact, flexible and stable.
- Seals the formation of small localised gravel clusters in concrete.
- It forms a perfect seal in construction joints.
- May be applied with nails, no anchoring mesh required.

Idrostop PVC BI-BE

- PVC waterstop for sealing structural joints.
- For waterproofing structural joints in civil, industrial and hydraulic constructions.

Idrosilex

- Waterproofer for cementitious mortars.
- For waterproofing basements, swimming pools, reservoirs, tunnels, etc.
- Available in powder and liquid form.

Idrosilex Pronto

- Osmotic cementitious mortar suitable for contact with drinking water.
- For waterproofing foundations, walls, cellars, basements, retaining walls, swimming pools, canals and reservoirs. Also safe for use on containers holding drinking water.
- To be applied by brush, trowel or spray.
Resfoam 1KM

- Super-fluid one-component polyurethane resin to be injected for waterproofing.
- It penetrates several hundred micron thick cracks.
- For sealing even in presence of water infiltrations.

Plastimul

- One-component, solvent-free, quick-drying, low-shrinkage, high-yield, high flexibility bitumen waterproofing emulsion containing polystyrene spheres and rubber granules.
- Low shrinkage, quick-drying and high-yield and ready-to-use.
- Solvent-free, odourless, ecological, easy to work, resistant to aggressive substances contained in the ground.
- For waterproofing horizontal and vertical concrete and brickwork surfaces subject to high dynamic loads.
- To be applied by flat or notched trowel or by spray using a peristaltic pump.

Plastimul 1K Super Plus

- Two-component, flexible cementitious mortar for waterproofing.
- For concrete surfaces subject to negative and positive hydrostatic pressure.
- For foundation walls, car-parks, environments below ground level, water channels and swimming pools.
- To be applied by roller or spray.
- For horizontal and vertical surfaces at a thickness of at least 2 mm.

Lamposilex

- Ultra-fast setting and drying hydraulic binder for plugging water leaks.
- Use Lamposilex to plug any source of water, even under pressure, in basements, tunnels, subways, etc.
- For sealing watertight rigid joints in hydraulic concrete structures, sewers, tanks and canals.

Plastimul 2K Plus

- Two-component, low-shrinkage, high-flexibility bitumen waterproofing emulsion.
- Low shrinkage and quick-drying.
- Solvent-free, odourless, ecological.
- Resistant to aggressive substances contained in the ground.
- For waterproofing horizontal and vertical concrete and brickwork surfaces at low temperatures or high levels of damp and on smooth surfaces.
- To be applied by flat or notched trowel or by spray using a peristaltic pump.
- It may also be used for spot-bonding insulating panels used to protect the perimeter of the waterproofing layer.

Mapelastic Foundation

- Two-component, flexible cementitious mortar for waterproofing.
- For concrete surfaces subject to negative and positive hydrostatic pressure.
- For foundation walls, car-parks, environments below ground level, water channels and swimming pools.
- To be applied by roller or spray.
- For horizontal and vertical surfaces at a thickness of at least 2 mm.

Plastimul 2K Super

- Two-component high-flexibility bitumen waterproofing emulsion containing polystyrene spheres.
- Low shrinkage and quick-drying.
- Solvent-free, odourless, ecological, easy to work.
- Resistant to aggressive substances contained in the ground.
- For waterproofing horizontal and vertical surfaces at low temperatures or high levels of damp and on smooth surfaces.
- To be applied by flat or notched trowel or by spray using a peristaltic pump.
### BATHROOMS, DAMP ENVIRONMENTS, SWIMMING POOLS, BALCONIES and TERRACES

**SELECTION CHART**

<table>
<thead>
<tr>
<th></th>
<th>Horizontal and vertical surfaces</th>
<th>Fillets</th>
<th>Joints</th>
<th>Cross-members</th>
<th>Drains</th>
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* Waterproofing layers on exposed external surfaces
# UNDERGROUND STRUCTURES

## SELECTION CHART

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<th>Plateau</th>
<th>Post-cast walls</th>
<th>Pre-cast walls</th>
<th>Reinforced concrete walls with negative lift</th>
<th>Brick walls with negative lift</th>
<th>Lift shaft</th>
<th>Pile heads</th>
<th>Structural joint</th>
<th>Construction joint</th>
<th>Through bodies</th>
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<tr>
<td>Mapeproof</td>
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● After carrying out the render with Planitop HDM Maxi.