Toilets, swimming pools, spas, industrial kitchens, 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 offer their customers different systems for specific problems and always has the right product with suitable accessories to solve these problems.
WATERPROOFING STRUCTURES ABOVE GROUND LEVEL

It is very important that newly built structures which, during their normal service life, will come into contact with water, such as balconies, terraces and roofs, or which have areas or rooms that will be exposed to damp or moisture, such as swimming pools, bathrooms and industrial kitchens, are correctly waterproofed in order to increase their durability.

MAPEI has developed a system of products and accessory items for this type of application that may be used to carry out waterproofing work that is both secure and guaranteed, and which also takes into account the special care required around particular areas and features of structures.

... NEW STRUCTURES
WATERPROOFING STRUCTURES ABOVE GROUND LEVEL

... REPAIRS TO EXISTING STRUCTURES
Damage to the waterproofing system of existing roofs may be due to numerous factors. In order to guarantee the durability of a structure, it is very important the products used can ensure that the structure is waterproof and will provide adequate protection.

To ensure these conditions are met, MAPEI has developed a series of systems that may be used to repair the waterproofing system of existing structures by applying waterproofing products and their relative accessory items, either directly over the existing system or after breaking out limited areas of the structure, to guarantee the structure is made waterproof again.
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 Turbo
- Two-component, quick-drying, elastic cementitious mortar.
- May also be applied at low temperatures and on substrates not perfectly dry, as long as they are well-cured.
- Application of two coats incorporating Mapenet 150 or Mapetex Sel.

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

Drain Vertical Drain Lateral
- Floor-drain kit.

Mapelastic Smart
- Two-component, high-flexibility cementitious mortar.
- For protection and waterproofing.
- Used in conjunction with Mapenet 150 and Mapetex Sel. Mapelastic Smart may be also 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.

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 PE 120
- PVC tape for waterproofing systems formed using liquid membrane, not cementitious.
- Flexible waterproofing seal of edges, expansion joints, pipes and drains.

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.
SWIMMING POOLS

**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**
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- For protection and waterproofing.
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- 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.

**Mapetex Sel**
- Non-woven, macro-holed polypropylene fabric.
- Totally permeable to water, with synthetic polypropylene fibres.
- For reinforcing waterproofing membranes.

**Mapelastic Foundation**
- Two-component, flexible cementitious mortar for waterproofing.
- For concrete surfaces subject to negative or 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.

**Mapproof 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.

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

**Mapenet 150**
- Alkali-resistant glass fibre mesh (in compliance with ETAG 004 guide).
- For reinforcing waterproof protections, anti-fracture membranes and insulation coatings.
- 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.

**KITCHEN**

**Mapegum EPX / Mapegum EPX-T**
- Chemical resistant, epoxy-polyurethane resin for waterproofing and protecting screeds and concrete slabs prior to the laying of ceramic tiles.
- Mapegum EPX-T, thixotropic version for walls.
- No reinforcement required.

Mapei GmbH
Werk Weferlingen
Säurefliesner - Vereinigung e.V.
Burgwedel
P-66130401.001
P-66130402.001
Verbundabdichtung

IN COMPLIANCE WITH
EUROPEAN STANDARD
SURFACE PROTECTION
SYSTEMS FOR CONCRETE
EN 1504-2 (C)
PI-MC-IR
PRINCIPLES
LIQUID-APPLIED WATER IMPERMEABLE PRODUCTS
EN 14891
IN COMPLIANCE WITH
EUROPEAN STANDARD
CMO1P
EN 14891
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IN COMPLIANCE WITH
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- Used in combination 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 Turbo**
- Two-component, quick-drying, elastic cementitious mortar.
- May also be applied at low temperatures and on substrates not perfectly dry, as long as they are well-cured.
- Application of two coats incorporating Mapenet 150 or Mapetex Sel.

**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.

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

**Aquaflex Roof Plus**
- Ready-mixed, highly elastic, rapid drying, liquid waterproofing membrane resistant to UV rays.
- Rapid drying.
- Durability classes 5, 10 and 15 years.
- SRI (Solar Reflectance Index) = 107.

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

**Mapelastic Smart**
- Two-component, high flexibility cementitious mortar.
- For protection and waterproofing.
- Used in conjunction with Mapenet 150 or Mapetex Sel. Mapelastic Smart 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.

**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.

**Aquaflex Roof Premium**
- UV-resistant, water-based polyurethane waterproofing membrane.
- Supplied ready for use.
- Resistant to foot traffic and standing water.
- Contains no VOC.
- Application: by roller or spray on cementitious substrates in general and substrates with old bitumen membranes or floor and wall coverings.

**Mapetex 50**
- Non-woven polypropylene fabric.
- Black coloured non-woven fabric of 50 g/m² made from single heat-welded polypropylene threads.
- For reinforcing waterproofing membrane as Aquaflex Roof, Aquaflex Roof HR and Aquaflex Roof Plus.
**Mapenet 150**
- Alkali-resistant glass fibre mesh (in compliance with ETA 004 guide).
- For reinforcing waterproof protections, anti-fracture membranes and insulation coatings.

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

**Mapenet 150**
- Alkali-resistant glass fibre mesh (in compliance with ETA 004 guide).
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- For expansion joints in road-works, water tunnels and covering applications.
Underground structures: the elements 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 portfolio of repair and protection solutions which guarantee an efficient solution for any construction element.
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 existing, 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.
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: **Mapeproof**

Structure in concrete with **Dynamon** admixture

Water-expanding bentonite jointing strip: **Idrostop B25**
Bentonite sheet: **Mapeproof**
Lean concrete: **Mapeproof**
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 in order to isolate the structures from any surrounding water, and a continuous, waterproof “tanking” 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 penetrations.

... REINFORCED CONCRETE FOUNDATIONS IN EXCAVATIONS WITH TEMPORARY SHORING

Two-component cementitious mortar
**Mapelastic Foundation**
(after levelling off the diaphragm with fibre-reinforced thixotropic mortar)

**Mapegrout 430**

Water-expanding bentonite jointing strip
**Idrostop B25**

Bentonite sheet
**Mapeproof**

Diaphragm

Water-expanding bentonite jointing strip
**Idrostop B25**

Structure in concrete with
**Dynamon**

Bentonite sheet
**Mapeproof**

Lean concrete
UNDERGROUND STRUCTURES

**Mapeproof**
- Bentonite waterproofing sheets for underground structures.
- Suitable for both horizontal and vertical surfaces.
- 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 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 Mastic**
- Bentonite paste made from natural sodium bentonite and plasticising admixtures for sealing penetrations which pass through surfaces.
- Extremely easy-to-use.
- 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 concrete and in prefabricated elements infiltrated by water.

**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.

**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 Soft**
- Water-expanding, high-flexibility, bentonite jointing strip for waterproofing construction joints and second pours.
- Excellent elasticity.
- High swelling capacity, capable of filling small honeycomb voids and shrinkage in the concrete.
- Idrostop Soft must be bonded to the substrate with Mapeflex MS45 or Ultrabond MS Rapid.

**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.
**Mapelastic Foundation**
- Two-component, flexible cementitious mortar for waterproofing.
- For concrete surfaces subject to negative or 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.

**Resfoam 1KM**
- Super-fluid one-component polyurethane resin to be injected for waterproofing.
- It penetrates several hundred micron thick cracks.
- For sealing in presence of water infiltration.

**Plastimul 1K Super Plus**
- One-component, 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 2K Reactive**
- Two-component, high elasticity bitumen emulsion for immediate waterproofing.
- Applied by spray.
- Solvent-free and eco-compatible.
- For waterproofing foundations and retaining walls from the outside and for waterproofing unexposed horizontal and vertical surfaces in general.

**Plastimul Primer SB**
- High performance, rapid-drying bituminous primer.
- To be applied by brush, roller or spray on concrete surfaces, before Plastimul 2K Reactive.

**Mapei Waterproofer**
- Waterproofing agent for render and normal-setting waterproofing mixes.
- Waterproofing structures in general installed below ground level.
- Resistant to negative hydrostatic pressure.
- Easy to use.
- Remains stable over the years.

**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 waterfront rigid joints in hydraulic concrete structures, sewers, tanks and canals.

**Plastimul**
- Solvent-free, bitumen waterproofing emulsion for general purpose use.
- For horizontal and vertical surfaces.
- For foundations, retaining walls, layers beneath tiles, etc.

**Plastimul 2K Plus**
- Two-component, low-shrinkage, high-flexibility bitumen waterproofing emulsion.
- 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.

**Planiseal 288**
- Two component cementitious mortar for waterproofing internal structures, basins and tanks.
- Waterproofing of internal structures even with water in counter-pressure.
- To be applied by brush, roller or trowel.

**Mapethene HT**
- Self-adhesive bituminous membrane for waterproofing structures below ground level.
- Suitable for application at temperatures up to +45°C.
- Before applying the product apply a coat of Mapethene Primer or Mapethene Primer W.
**Mapethene LT**

- Self-adhesive bituminous membrane for waterproofing structures below ground level.
- Suitable for application at temperatures down to -5°C.
- Before applying the product apply a coat of Mapethene Primer or Mapethene Primer W.

**Mapethene Primer**

- Bitumen primer for membranes from the Mapethene line.
- Solvent-free.
- Ready-mixed.
- Rapid-drying.
- Application: by brush, roller or airless spray.

**Mapethene Primer W**

- One-component primer for membranes from the Mapethene line applied at low temperatures.
- Ready-mixed.
- May be applied as low as -5°C.
- Solvent-free.
- Rapid-drying.
- Application: by brush, roller or airless spray.
## BATHROOMS, DAMP ENVIRONMENTS, SWIMMING POOLS, BALCONIES and TERRACES

### SELECTION CHART

<table>
<thead>
<tr>
<th>BATHROOMS &amp; DAMP ENVIRONMENTS</th>
<th>Horizontal and vertical surfaces</th>
<th>Fillets</th>
<th>Joints</th>
<th>Cross-members</th>
<th>Drains</th>
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<td>Mapelastic</td>
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### KITCHEN

| Mapegum EPX                     | ●                               |        |        |               |        |
| Mapeband                       | ●                               | ●      | ●      |               | ●      |
| Mapeband TPE                   | ●                               |        | ●      | ●             | ●      |
| Mapegum EPX-T                  | ●                               |        |        |               | ●      |

### SWIMMING POOLS

| Mapelastic                     | ●                               |        |        |               |        |
| Mapelastic Foundation          | ●                               |        |        |               |        |
| Mapelastic Smart               | ●                               |        |        |               |        |
| Mapeproof Swell                | ●                               |        |        |               |        |
| Mapeband                       | ●                               | ●      | ●      |               | ●      |
| Mapeband TPE                   | ●                               |        | ●      | ●             | ●      |
| Drain Vertical                 |                                 |        |        |               |        |

### BALCONIES, TERRACES and FLAT ROOFS

| Aquaflex Roof*                 | ●                               |        |        |               |        |
| Aquaflex Roof HR*              | ●                               |        |        |               |        |
| Aquaflex Roof Plus*            | ●                               |        |        |               |        |
| Aquaflex Roof Premium          | ●                               |        |        |               |        |
| Mapelastic                     | ●                               |        |        |               |        |
| Mapelastic Smart               | ●                               |        |        |               |        |
| Mapelastic Turbo               | ●                               |        |        |               |        |
| Mapelastic AquaDefense         | ●                               |        |        |               |        |
| Monolastic                     | ●                               |        |        |               |        |
| Mapenet 150                    | ●                               |        |        |               |        |
| Mapetex Sel                    | ●                               |        |        |               |        |
| Mapetex 50                     | ●                               |        |        |               |        |
| Mapeband                       | ●                               | ●      | ●      |               | ●      |
| Mapeband SA                    | ●                               |        |        |               | ●      |
| Mapeband TPE                   |                                 |        |        | ●             | ●      |
| Drain Lateral                  |                                 |        |        | ●             | ●      |
| Drain Vertical                 |                                 |        |        | ●             | ●      |
| Drain Front                    |                                 |        |        |               |        |
| Mapeslope                      |                                 |        |        |               | ●      |

* Waterproofing layers on exposed external surfaces
## UNDERGROUND STRUCTURES SELECTION CHART

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<tr>
<th>UNDERGROUND STRUCTURES</th>
<th>Plateau</th>
<th>Post-cast walls</th>
<th>Pre-cast walls</th>
<th>Reinforced concrete walls with negative pressure</th>
<th>Brick walls with negative pressure</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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● After carrying out the render with Planitop HDM Maxi.
MAPEI products are also:

- based on the innovative R&D labs of MAPEI Group;
- formulated with recycled, ultra-light material;
- developed to reduce energy consumption;
- manufactured locally in eco-sustainable plants.

**Fast Track Ready**, MAPEI technology identifying products for rapid installation of floor and wall coverings, reducing costs and disturbance.
Technical documentation

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