

# SELECTION CHART OF WATERPROOFING PRODUCTS





Toilets, swimming pools, spas, industrial kitchens, balconies and terraces: all environments need 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 is why **MAPEI** always offer their customers different systems for specific problems and always has the right product with suitable accessories to solve these problems.



## CONTENTS

03	ROOFS
09	DAMP ENVIRONMENTS
13	BASEMENT/UNDERGROUND STRUCTURES
17	INTEGRAL WATERPROOFING ADMIXTURES
19	COMPLEMENTARY RANGE
21	WATERPROOFING SELECTION CHART







## ROOFS

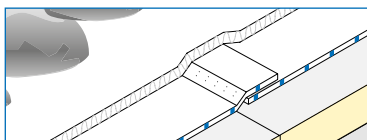
Roofs, balconies and terraces are becoming an extension of the inside of our homes, multi-functional spaces such as urban roof garden, urban farming, where we spend our spare time in pleasant surroundings.

Mapei has developed a wide range of original waterproofing systems that are ideal for use on new structures and for repairing and renovating existing structures.

Solutions that fulfill the need for reliable, long-lasting waterproofing systems.

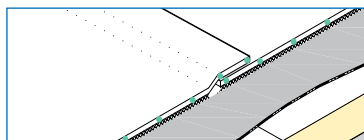
## Synthetic preformed waterproofing membrane

### Mapeplan B



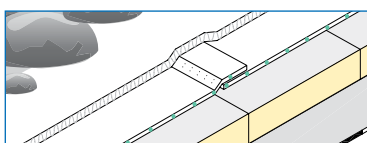
- ⚠ Synthetic roofing waterproofing membrane reinforced with glass mat
- ⚠ Resistant to UV rays
- ⚠ For ballasted, utility deck and roof garden
- ⚠ Resistant to root penetration (EN13948 and FLL certified)

### Mapeplan TA F



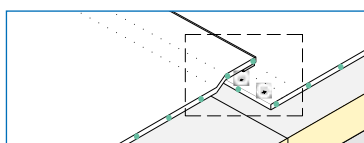
- ⚠ Synthetic roofing waterproofing membrane in flexible polyolefin FPO, reinforced with glass mat and fleece backed
- ⚠ For use with adhered system for exposed roof installations
- ⚠ Resistant to UV rays
- ⚠ Resistant to root penetration (EN13948 and FLL certified)

### Mapeplan TB



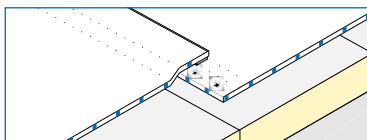
- ⚠ Synthetic roofing waterproofing membrane in flexible polyolefin FPO, reinforced with glass mat
- ⚠ Suitable loose laid ballasted, utility deck (pedestrian, parking) and roof garden
- ⚠ Resistant to UV rays
- ⚠ Resistant to root penetration (EN13948 and FLL certified)

### Mapeplan TM



- ⚠ Synthetic roofing waterproofing membrane in flexible polyolefin FPO, reinforced with polyester net
- ⚠ Suitable for exposed roof installations and for mechanical fixing
- ⚠ Resistant to UV rays

### Mapeplan M



- ⚠ Synthetic roofing waterproofing membrane in flexible polyvinyl chloride (PVC), reinforced with polyester net
- ⚠ Suitable for exposed roof installations and for mechanical fixing
- ⚠ Resistant to UV rays



## Liquid applied waterproofing membrane

### Aquaflex Roof MY



- Ready-to-use, flexible, liquid-applied, seamless membrane
- Resistant to atmospheric conditions and UV rays
- For external applications such as roofs, balconies
- May be applied on existing tiles and stones, cementitious screeds, concrete, metal sheet roofing

### Aquaflex Roof Premium



- Ready-to-use, water-based polyurethane waterproofing membrane
- For roofs, terraces, balconies, walkways
- Solvent-free
- High stretching capacity
- Resistant to root penetration (UNI CEN/TS14416 certified)

### Aquaflex Roof Plus



- Ready-mixed, highly elastic, rapid drying liquid waterproofing membrane
- UV-resistance (with Solar Reflectance Index of 107)
- For metal and concrete roofs as an exposed system

## Self-adhesive preformed waterproofing membrane

### Spider P / Spider P Mineral



- Self-adhesive waterproofing membrane made with ADESO technology
- Good dimensional stability and mechanical performance
- Excellent membrane bonding even in difficult situations
- Available in 3.5kg Mineral Green & Grey as well as without mineral chips

## Polyurethane liquid applied waterproofing membrane

### Plastimul PU



- ▣ Liquid applied elastomeric polyurethane waterproofing membrane
- ▣ Protection for concrete and steel substrates
- ▣ Forms an impervious continuous barrier to eliminate migration of water between membrane and substrate

### Plastimul PU W



- ▣ Water-based, highly elastic, polymer-modified, hybrid PU-asphalt membrane for waterproofing
- ▣ For waterproofing and protection of concrete substrates
- ▣ For horizontal and vertical surfaces
- ▣ Resistant to root penetration

## Torch-on preformed waterproofing membrane

### Mapethene TA



- ▣ APP modified torch-applied bituminous waterproofing membrane
- ▣ Excellent resistance to atmospheric pressure
- ▣ For roofs, plaza decks, basements, etc.

## Bituminous liquid applied waterproofing membrane

### Plastimul MY



- ⚠ All-purpose bituminous emulsion coating
- ⚠ For damp-proofing and protective coating of concrete foundation structures and roof slabs and gutters

### Plastimul 2K Reactive



- ⚠ Solvent-free, eco-compatible, bitumen waterproofing emulsion with high elasticity
- ⚠ For waterproofing underground structure, where water percolates through or if there is water pressure
- ⚠ For waterproofing the outside of foundations and retaining walls

## High-performance polyurethane liquid applied waterproofing membrane

### Purtop Easy



- ⚠ One-component elastic polyurethane waterproofing membrane
- ⚠ Highly elastic and durable (certified service life of 25 years for Roof system, according to ETAG 005)
- ⚠ For roofs, balconies, walkways, pedestrian areas
- ⚠ Resistant to root penetration (EN13948 certified)



## Polyurea spray waterproofing membrane

### Purtop 400 M



- ⚠ Two-component, solvent-free, hybrid polyurea waterproofing membrane
- ⚠ High tear strength, flexible, resistant to chemicals
- ⚠ For large roofs and bridge decks
- ⚠ Immediate waterproofing and rapid set to foot traffic
- ⚠ Root resistant

### Purtop 1000



- ⚠ Two-component, solvent-free pure polyurea membrane
- ⚠ Flexible, high chemical resistance and tear strength
- ⚠ Apply by spray with a high-pressure, bi-mixer type pump
- ⚠ For roofs, bridge decks, viaducts, tanks and hydraulic structures
- ⚠ Resistant to root penetration (CEN/TS14416 and EN13948 certified)
- ⚠ Suitable for contact with drinking water according to BS6920

### Purtop HA



- ⚠ Two-component, solvent-free, hand applied hybrid polyurea waterproofing membrane
- ⚠ High tear strength, flexible, resistant to chemicals
- ⚠ For small to medium size roofs, terraces and for repairing damaged polyurea membrane
- ⚠ Immediate waterproofing and rapid set to foot traffic



## DAMP ENVIRONMENTS

During the normal service life, newly built structures such as balconies, terraces, swimming pools, bathrooms and industrial kitchens, will come into contact with water or be exposed to damp or moisture.

It is essential for these structures to be waterproofed the right way to increase their service life. In order to waterproof these environments efficiently, it is important to protect structures from deterioration, improve rooms' comfort and reduce maintenance costs to the minimum.

Mapei offers a range of systems and solutions to solve specific problems.

## Flexible cementitious liquid applied waterproofing membrane

### Mapelastic



- Two-component flexible cementitious mortar
- For protection and waterproofing
- For structures particularly subject to cracking
- Protects the surface of concrete from carbonation

### Mapelastic Smart



- Two-component, high flexibility cementitious mortar
- Crack-bridging capacity > 2mm
- Protect and waterproof concrete structures - hydraulic projects, wet or damp areas
- Used in conjunction with Mapenet 150 and Mapeband

### Mapelastic Turbo



- Two-component, rapid-drying elastic cementitious mortar
- For balconies, terraces, flat roofs, swimming pools
- Mainly used for fast track projects

### Mapelastic High Flex



- Two-component, highly flexible cementitious waterproofing membrane
- Crack-bridging capability > 2mm
- Protect and waterproof concrete structures
- Highly elastic with elongation of 150%

### Mapelastic Foundation



- Two-component, flexible cementitious mortar for repairing concrete surfaces subject to positive and negative water pressure
- For underground car parks, sump pits, concrete retaining walls

### Mapelastic AquaDefense



- Single component, ready-to-use, ultra-quick drying, flexible liquid membrane
- Internal and external waterproofing applications
- Application of ceramic and stone can be applied after 4 hours
- Suitable on drywall substrates
- Can be tiled directly using Mapei tile adhesives



## Cementitious liquid applied waterproofing membrane

### Planiseal 88



- ⚠ Osmotic cementitious mortar
- ⚠ Repairing underground masonries subject to water and moisture seepage
- ⚠ Waterproofing basins, reservoirs, tanks containing drinking water
- ⚠ Waterproofing concrete or masonry tanks containing sewage water

### Planiseal 288



- ⚠ Two-component cementitious mortar for waterproofing underground and concrete structures
- ⚠ Excellent adhesion to various types of substrate
- ⚠ Highly permeable to water vapour
- ⚠ Protects and increases the durability of concrete (complies with EN 1504-2 standards)

### Planiseal 388



- ⚠ Two-component, polymer-modified mortar
- ⚠ Applied in slurry form to waterproof concrete and cement mortar surfaces
- ⚠ Vapour permeable, can be applied on damp substrates
- ⚠ Highly flexible with good crack-bridging properties





A large, textured concrete wall, likely a basement or underground structure, dominates the background. The wall is light-colored with visible vertical joints and several small, dark, circular openings. In the foreground, a person wearing a white t-shirt with the 'MAPEI' logo, blue shorts, and a blue cap is walking away from the camera. The image is overlaid with a large, semi-transparent magenta triangle that points towards the bottom right corner.

## BASEMENT/ UNDERGROUND STRUCTURES

Underground structures are 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 must be protected to guarantee the life-span of buildings.

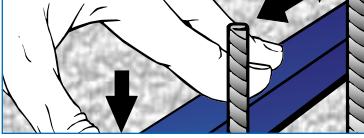
If no suitable protection is applied, there are no construction materials with the capacity of resisting the various factors which are present below ground level.

Mapei offers a wide portfolio of repair and protection solutions which ensures an efficient solution for any construction element: be it renovating structures with water under pressure, or waterproofing foundations of new constructions.



## Construction joints protection systems

### 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 water pressure (positive and negative)
- ⚠ For concrete, metal, PVC and natural stone

### Idrostop MY



- ⚠ Hydrophilic expandable rubber section for watertight construction joints
- ⚠ Delay swelling and not affected by freshly poured concrete

### Idrostop Mastic



- ⚠ One component thixotropic adhesive for bonding Idrostop to concrete
- ⚠ Also used for bonding Idrostop onto PVC and metal pipes

### Idrostop PVC



- ⚠ PVC waterstop for sealing structural joints
- ⚠ It has a central bulb for expansion joints
- ⚠ For waterproofing structural joints in civil, industrial and hydraulic constructions

### Idrostop Multi



- ⚠ PVC-P re-injectable hoses for waterproofing injections
- ⚠ For sealing and waterproofing injections in construction joints

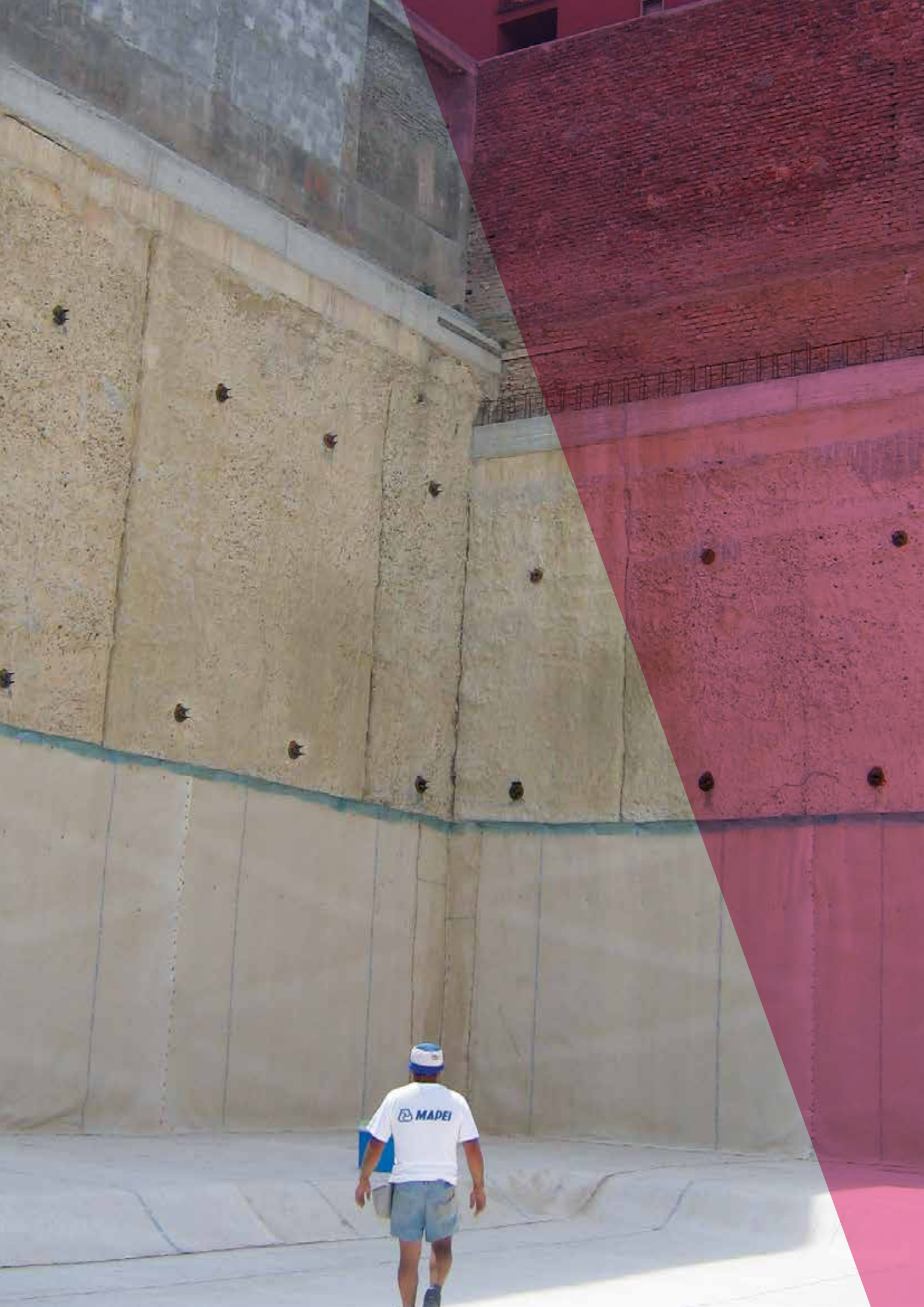
## Pre-applied waterproofing membrane

### Mapeproof FBT

---



- ⚠ Synthetic fully-bonded waterproof sheet membrane
- ⚠ Made of synthetic membrane, laminated with non-woven fabric
- ⚠ For waterproofing horizontal and vertical surfaces of underground structures before pouring concrete
- ⚠ Tested to ASTM D5385 for zero lateral water migration at 7 bars







## INTEGRAL WATERPROOFING ADMIXTURES

Durability of concrete is affected from factors deriving from environment exposure. The type and severity of deterioration depends on the proximity and intensity of aggressive agents and on the capacity of concrete to resist chemical and physical attacks.

Designing a watertight concrete, together with proper placement, compaction and curing, is a start for a more durable concrete.



## Integral waterproofing admixtures

### Idrocrete KR 1000



- ⚠ Crystallizing admixture for waterproof concrete
- ⚠ Reduces the permeability of hardened concrete when added to a concrete mix
- ⚠ May be used with any type of concrete to make it resistant to aggressive environments

### Idrocrete WP



- ⚠ High-performance, hydrophobic, pore-blocking integral waterproofing admixture for concrete
- ⚠ For concrete structures that require reduced water absorption and permeability
- ⚠ Suitable for underground and above-ground structures

### Idrosilex



- ⚠ Powdered or liquid waterproofer for cementitious mortars
- ⚠ Waterproofing concrete basements, canals, concrete, brick or stone walls exposed to atmospheric agents



## COMPLEMENTARY RANGE

The efficiency of Mapei waterproofing products is complemented with accessories to complete the system, taking into account the special care required around particular areas and features of structures.



## Complementary waterproofing & repair accessories

### Lamposilex



- ⚠ Ultra-fast setting and curing hydraulic binder for plugging water leaks
- ⚠ For plugging 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

### Mapeband



- ⚠ Alkali-resistant rubber tape with felt for cementitious waterproofing and liquid membranes
- ⚠ For walls and floors, sealing indoor pipes and drains, expansion joints in precast panels
- ⚠ For baths, showers, terraces, balconies, etc., that are to be laid with tiles and 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, tunnels and covering applications

### Mapenet 150



- ⚠ Alkali-resistant glass fibre mesh (in compliance with ETAG 004 directive)
- ⚠ For reinforcing waterproof protections, anti-fracture membranes and cementitious smoothing and levelling layers

### Mapeproof Swell




























































- ⚠ Hydro-expansive paste supplied in cartridges, applied using an extrusion gun
- ⚠ For waterproofing and sealing cracked reinforced concrete and in prefabricated elements with infiltration of water

### Resfoam 1 KM



- ⚠ Ultra-fluid, polyurethane injection resin with adjustable reaction times
- ⚠ For waterproofing structures, grounds and rocks subject to intense water seepage

## WATERPROOFING SELECTION CHART

	ABOVE GROUND STRUCTURES			
	Horizontal and vertical surfaces	Fillets	Joints	Drains
<b>ROOFS</b>				
Aquaflex Roof MY				
Aquaflex Roof Plus				
Aquaflex Roof Premium				
Mapeplan B				
Mapeplan M				
Mapeplan TA F				
Mapeplan TB				
Mapeplan TM				
Mapethene TA				
Plastimul MY				
Plastimul 2K Reactive				
Plastimul PU				
Plastimul PU W				
Purtop 1000				
Purtop 400 M				
Purtop Easy				
Purtop HA				
Spider P / Spider P Mineral				
<b>DAMP ENVIRONMENTS</b>				
Mapelastic				
Mapelastic AquaDefense				
Mapelastic Foundation				
Mapelastic High Flex				
Mapelastic Smart				
Mapelastic Turbo				
Planiseal 88				
Planiseal 288				
Planiseal 388				
<b>BASEMENT/UNDERGROUND STRUCTURES</b>				
Idrostop				
Idrostop Mastic				
Idrostop Multi				
Idrostop MY				
Idrostop PVC				
Mapeproof FBT				
<b>INTEGRAL WATERPROOFING ADMIXTURES</b>				
Idrocrete KR 1000				
Idrocrete WP				
Idrosilex				
<b>COMPLEMENTARY RANGE</b>				
Lamposilex				
Mapeband				
Mapeband TPE				
Mapenet 150				
Mapeproof Swell				
Resfoam 1 KM				

[illegible]



**MAPEI FAR EAST PTE LTD**

28 Tuas West Road, Singapore 638383

Tel: +65 6862 3488

Fax: +65 6862 1012/3

Email: [mapei@mapei.com.sg](mailto:mapei@mapei.com.sg)

Website: [www.mapei.com.sg](http://www.mapei.com.sg)

