

# Guide to help choose Waterproofing Products



Balconies and Terraces



Bathrooms, Damp environments,  
Swimming-pools



Underground structures



# Repair

## QUICK GUIDE

1

**Repairing of swimming pools and basins**



Mapeproof Swell - Lamposilex - Mapelastix - Mapenet 150 - Mapelastix Smart - Mapetex Sel - Monolastic Ultra - Mapeband - Mapeband TPE - Drain Vertical

2

**Sealing pipes**



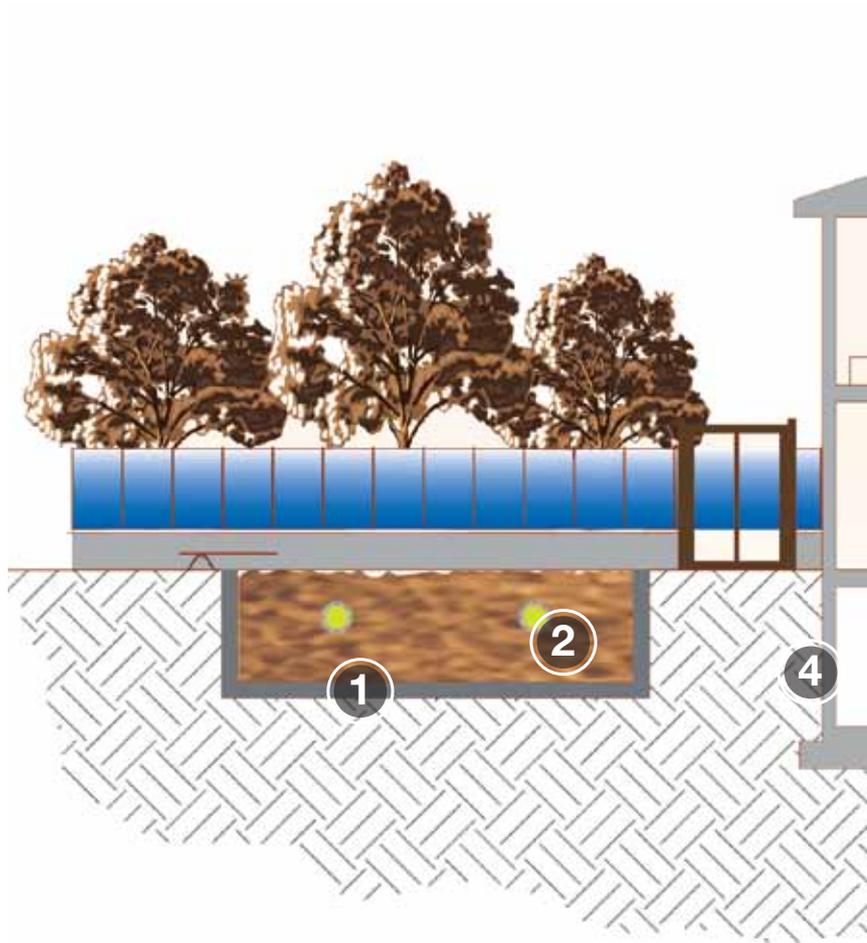
Mapeproof Swell - Lamposilex

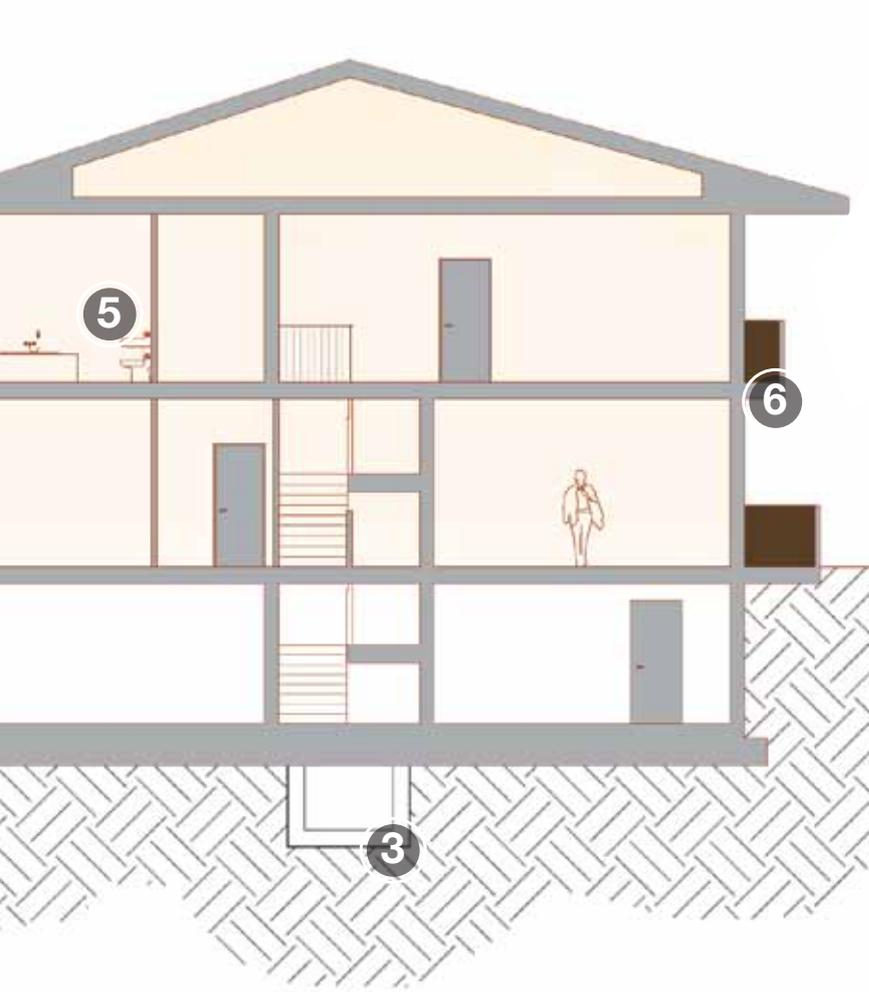
3

**Repairing of lift shafts**



Lamposilex - Mapeproof Swell - Idrosilex - Mapelastix Foundation





**4** *Repairing of underground environments*

*Lamosilex - Mapeproof Swell - Idrosilex - Mapelastic Foundation - Mapeproof - Idrostop B25*

**5** *Repairing of bathrooms, showers and laundries*

*Mapegum WPS - Mapelastic AquaDefense - Mapeband PE 120 - Drain Lateral or Drain Vertical*

**6** *Repairing of terraces and balconies*

*Mapelastic - Mapenet 150 - Mapelastic Smart - Mapetex Sel - Mapelastic AquaDefense - Monolastic - Monolastic Ultra - Mapeband - Mapeband Tpe - Drain Line*

# New constructions

## QUICK GUIDE

1

### Foundations



Mapeproof - Mapeproof LW

2

### Sealing construction joints



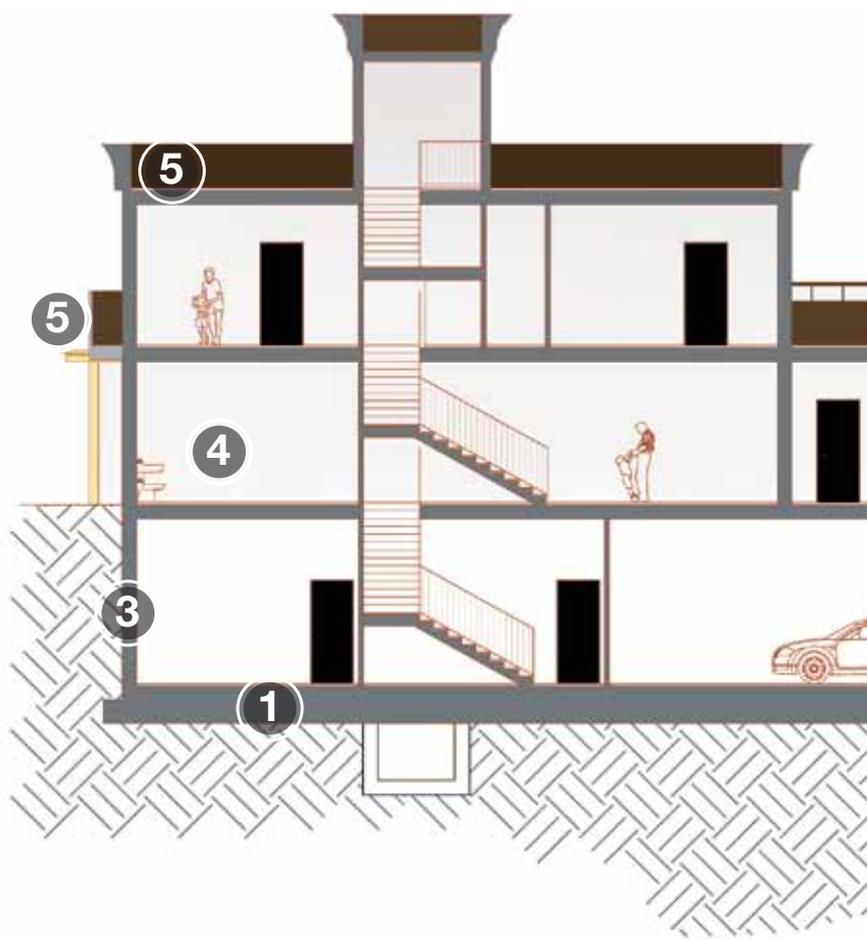
Idrostop - Idrostop B25

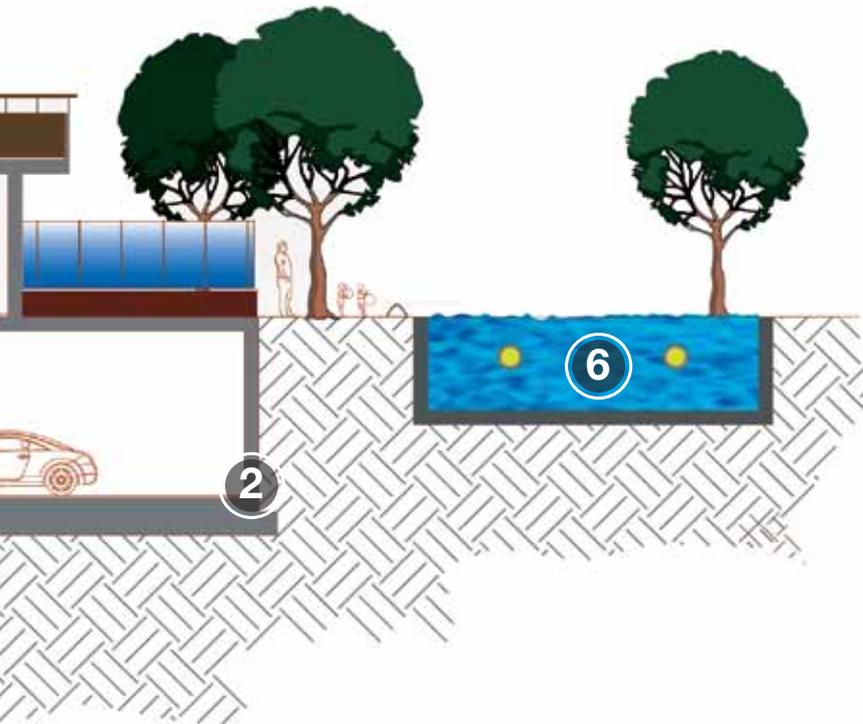
3

### Waterproofing of ground walls

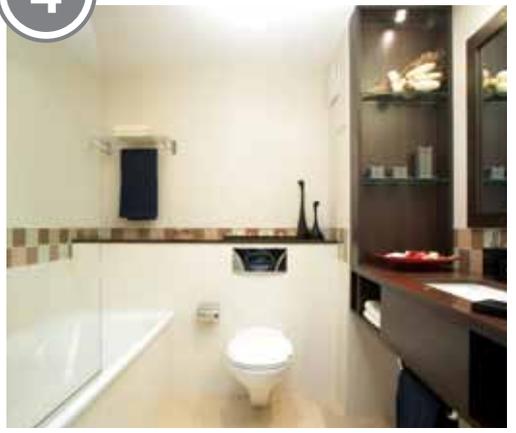


Mapeproof - Mapeproof LW - Mapelastic Foundation - Plastimul Line





**4** *Repairing of bathrooms showers and laundries*



*Mapegum WPS - Mapelastich AquaDefense - Mapeband PE 120 - Drain Lateral or Drain Vertical*

**5** *Waterproofing of balconies and terraces*



*Mapelastich - Mapenet 150 - Mapelastich Smart - Mapetex Sel - Mapelastich AquaDefense - Monolastich - Monolastich Ultra - Mapeband - Mapeband TPE - Drain Line*

**6** *Repairing of swimming pools and basins*



*Mapelastich - Mapenet 150 - Mapelastich Smart - Mapetex Sel - Monolastich Ultra - Mapeband - Mapeband TPE - Drain Vertical*

# BATHROOMS, DAMP ENVIRONMENTS, SWIMMING POOL & TERRACES



Bathrooms



Swimming Pools



Balconies and Terraces

**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 way MAPEI always offer to their customers different systems for specific problems and always have the right product with suitable accessories to solve any problem.



## 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 help **improve** both **elongation at break** and crack bridging.



## Mapelastic Smart



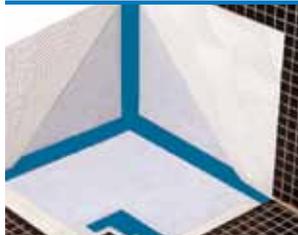
- ▶ **Two-component, high- flexibility cementitious mortar**.
- ▶ For **protection and waterproofing**.
- ▶ Used in conjunction with **Mapenet 150** or **Mapetex Sel**, Mapelastic may be also used surfaces particularly stressed or crazed and help **improve** both **elongation at break** and crack bridging.

## 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**.

## 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.

## Monolastic



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

## Monolastic Ultra



- ▶ **One component, highly-flexible cementitious mortar**.
- ▶ It may also be applied on **vertical** surfaces without running and without waste.
- ▶ 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 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 PE 120



- ▶ **PVC tape** for waterproofing systems formed using liquid membrane.
- ▶ **Flexible waterproofing** seal of edges, expansion joints, pipes and drains.

## Drain Vertical Drain Lateral



- ▶ **Floor-drain kit**.



## Mapelastic



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## Mapelastic Smart



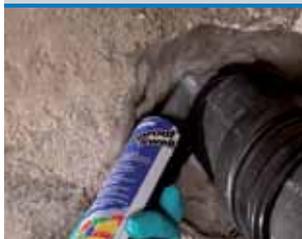
- ▶ **Two-component**, high- flexibility **cementitious mortar**.
- ▶ For **protection** and **waterproofing**.
- ▶ Used in conjunction with **Mapenet 150** or **Mapetex Sel**, Mapelastic may be also used surfaces particularly stressed or crazed and help **improve** both **elongation at break** and crack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

## Monolastic Ultra



- ▶ **One component**, highly-flexible **cementitious mortar**.
- ▶ It may also be applied on **vertical** surfaces without running and without waste.
- ▶ It **bonds** extremely well to **all surfaces in concrete, masonry, ceramic and marble**.

## 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.

## 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.

## Drain Vertical



- ▶ **Floor-drain kit**.

## Mapenet 150



- ▶ **Alkali-resistant glass fibre mesh** in compliance with ETAG 004 guides.
- ▶ For **reinforcing** waterproof protections, anti-fracture membranes and insulation coatings.

## Mapetex Sel



- ▶ **Non-woven, macro-holed polypropylene fabric**.
- ▶ For **reinforcing** waterproofing membranes.





## 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 help **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** or **Mapetex Sel**, Mapelastic may be also used surfaces particularly stressed or crazed and help **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**.
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## Monolastic Ultra



- ▶ **One component, highly-flexible cementitious mortar**.
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## 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.

## 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.

# UNDERGROUND STRUCTURES



**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.

## UNDERGROUND STRUCTURES



### Mapeproof



- ▶ **Bentonite waterproofing sheets** for structures below ground level.
- ▶ Suitable for both **horizontal and vertical** surfaces.
- ▶ For both **post-cast** and **pre-cast** walls.



### 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 **post-cast walls** and **pre-cast walls**.

### 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.



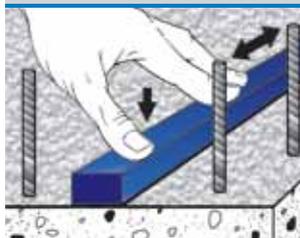
### Mapeproof Mastic

- ▶ **Bentonite paste** made from natural sodium bentonite and plasticising additives for sealing elements which pass through surfaces.
- ▶ **Extremely easy-to-use**.
- ▶ Mapeproof Mastic is used for **sealing** elements which pass through surfaces, for sealing formwork and small honeycombs voids, to blend in edges and corners and for localised repairs to bentonite sheets.

### 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

- ▶ **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**.

### Idrostop B25



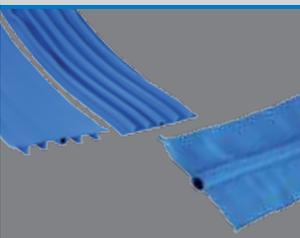
- ▶ **Waterstop profile** made from natural sodium bentonite and polymers.
- ▶ **Compact, flexible and stable**.
- ▶ **Seals** the formation of small localised gravel clusters in concrete.
- ▶ It forms a perfect seal in construction joints.
- ▶ **May be applied with nails**, no anchoring mesh required.



### 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.

### Idrostop PVC BI-BE



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



### Idrosilex Pronto



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

### Idrosilex



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



## Mapelastic Foundation



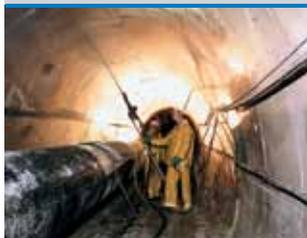
- ▶ Two-component, flexible **cementitious mortar** for waterproofing.
- ▶ For **concrete surfaces subject to negative and positive hydrostatic pressure.**
- ▶ For **foundation walls, car-parks, environments below ground level, water channels and swimming pools.**
- ▶ To be applied by **roller or spray.**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

## 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.

## Foamjet T



- ▶ High viscosity ultra rapid setting **two-component polyurethane resin** to be injected.
- ▶ For **consolidating and waterproofing** structural elements subject to high pressure water ingress.
- ▶ **Ultra quick setting.**
- ▶ For **waterproofing cracked concrete and masonry** structures such as tunnels, shafts, dams, canals, bulkheads, flooring or beds subject to strong water ingress.
- ▶ It **penetrates** several hundred micron thick **cracks.**
- ▶ For **sealing** even in presence of water infiltrations.

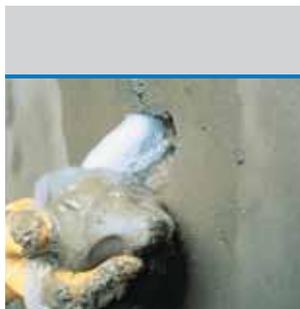


## Plastimul 1K Super Plus



- ▶ **One-component, solvent-free, quick-drying, low-shrinkage, high-yield, high flexibility bitumen waterproofing emulsion** containing polystyrene spheres and rubber granules.
- ▶ **Solvent-free, odourless, ecological, easy to work with** and is resistant to aggressive substances contained in the ground.
- ▶ For **waterproofing horizontal and vertical** concrete and brickwork surfaces subject to high dynamic loads.
- ▶ For spot-bonding **insulating panels** used to protect the perimeter of the waterproofing layer.
- ▶ To be applied by **flat or notched trowel or by spray** using a peristaltic pump.

## 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.

## Foamjet F



- ▶ Fluid ultra rapid setting **two-component polyurethane resin** to be injected.
- ▶ For **consolidating and waterproofing** structural elements subject to weak water ingress.
- ▶ **Ultra quick setting.**
- ▶ For **consolidating of rocks and grounds.**
- ▶ For **waterproofing cracked concrete and masonry structures** such as tunnels, shafts, dams, canals, bulkheads, damp flooring or beds.
- ▶ It **penetrates** several hundred micron thick **cracks.**
- ▶ For **sealing** even in presence of water infiltrations.

## 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

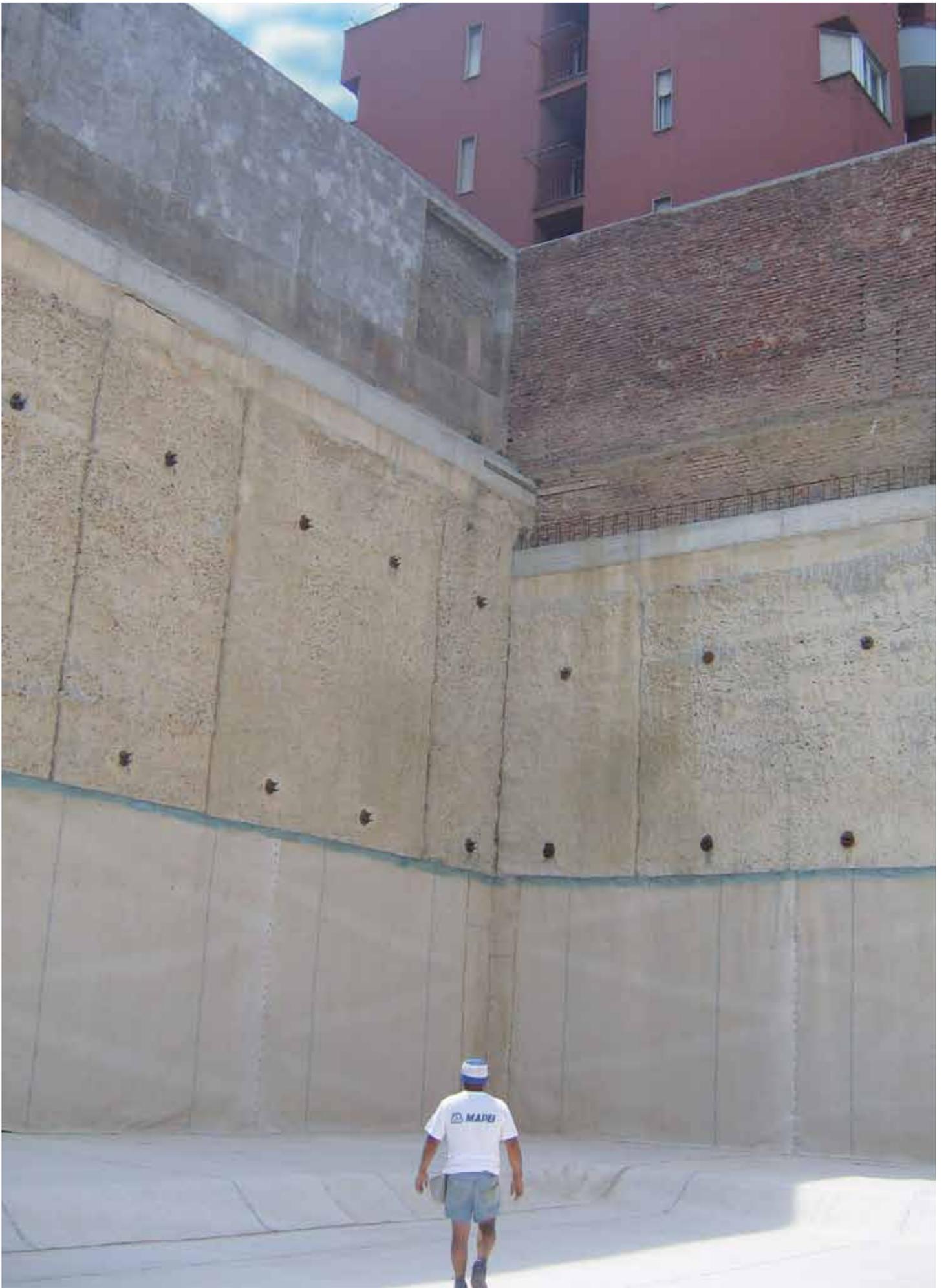


- ▶ **Two-component, low-shrinkage, high-flexibility bitumen waterproofing emulsion**
- ▶ **Solvent-free, ecological**
- ▶ For waterproofing **horizontal and vertical** concrete and brickwork surfaces at low temperatures or high levels of damp and on smooth surfaces.
- ▶ It may also be used for spot-bonding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

## Plastimul 2K Super



- ▶ **Two-component, quick-drying, low-shrinkage, high-flexibility bitumen waterproofing emulsion** containing polystyrene spheres.
- ▶ **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.
- ▶ It may also be used for spot-bonding **insulating panels** used to protect the perimeter of the waterproofing layer.
- ▶ To be applied by **flat or notched trowel or by spray** using a peristaltic pump.



# BATHROOMS, DAMP ENVIRONMENTS, SWIMMING POOL & TERRACES

## SELECTION CHART

	Horizontal and vertical surfaces	Fillets	Joints	Cross-members	Drains
<b>BATHROOMS &amp; DAMP ENVIRONMENTS</b>					
Mapelastic	•				
Mapelastic Smart	•				
Mapelastic AquaDefense	•				
Mapegum WPS	•				
Monolastic	•				
Monolastic Ultra	•				
Mapeband		•	•	•	
Mapeband PE 120		•	•	•	
Drain Lateral					•
Drain Vertical					•
<b>SWIMMING POOLS</b>					
Mapelastic	•				
Mapelastic Smart	•				
Monolastic Ultra	•				
Mapeproof Swell				•	
Mapeband		•	•		
Mapeband TPE			•		
Drain Vertical					•
<b>BALCONIES &amp; TERRACES</b>					
Mapelastic	•				
Mapelastic Smart	•				
Mapelastic AquaDefense	•				
Monolastic	•				
Monolastic Ultra	•				
Mapenet 150	•				
Mapetex Sel	•				
Mapeband		•	•		
Mapeband TPE			•		
Mapeproof Swell				•	
Drain Lateral					•
Drain Vertical					•
Drain Front					•

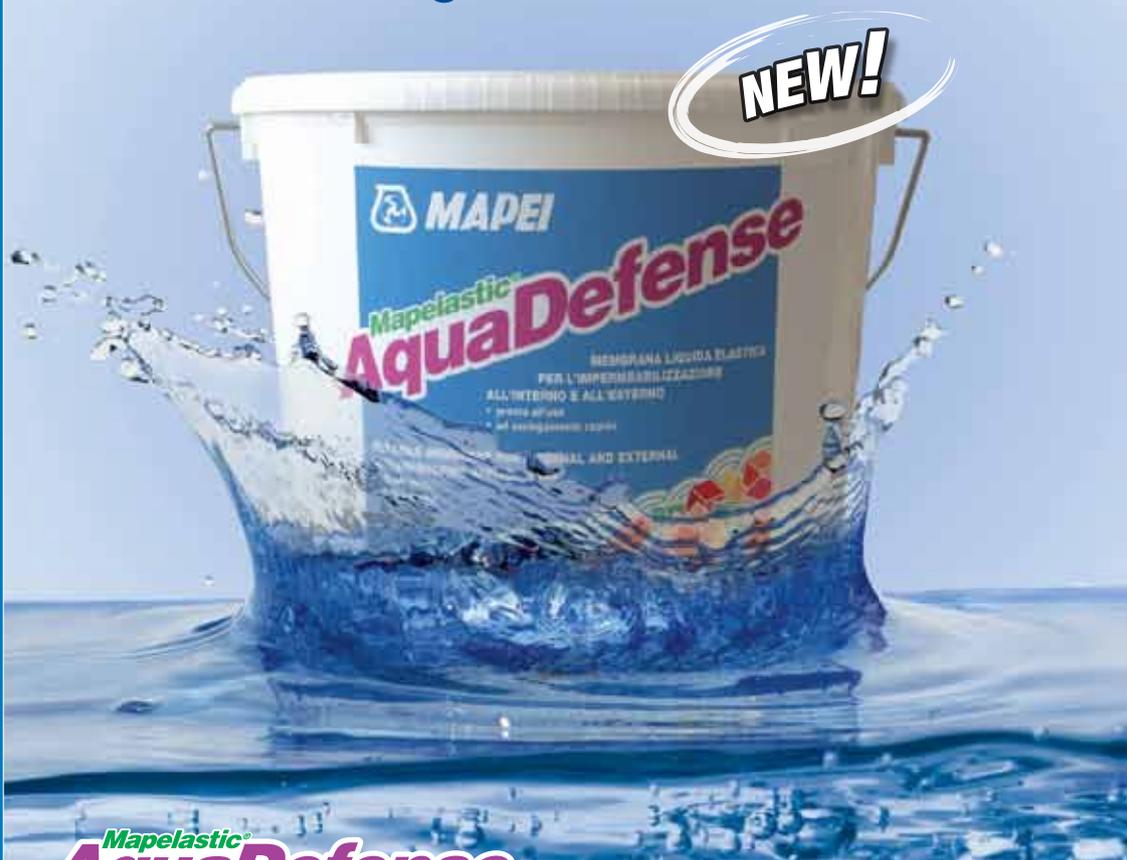
# UNDERGROUND STRUCTURES SELECTION CHART

	Plateau	Post-cast walls	Pre-cast walls	Reinforced concrete walls with negative lift	Brick walls with negative lift	Lift shaft	Pile heads	Structural joint	Construction joint	Through bodies
<b>UNDERGROUND STRUCTURES</b>										
Mapeproof	•	•	•			•	•			
Mapeproof LW	•	•	•			•	•			
Mapeproof Mastic							•			•
Mapeproof Swell				•		•	•			•
Idrostop						•			•	•
Idrostop B25						•	•		•	•
Mapeband		•							•	
Mapeband TPE								•		
Idrostop PVC BI-BE								•		
Idrosilex						•				
Idrosilex Pronto		•		•	•	•				
Mapelastic Foundation		•		•	•	•				
Lamposilex				•		•			•	•
Resfoam 1KM	•	•	•			•				
Foamjet F - Foamjet T	•	•	•			•				
Plastimul		•								
Plastimul 1K Super Plus		•								
Plastimul 2K Plus		•								
Plastimul 2K Super		•								

• After carrying out the render with **Planitop HDM Maxi**.

The **best defense**  
against water

**NEW!**



**Mapelastic**  
**AquaDefense**

**Mono-component, ready-to-use flexible liquid membrane for waterproofing under ceramic, marble and mosaic laid on internal and external surfaces.**

**• One-component, ready-to-use**

- Quick drying
- No reinforcement required
- Rain fast after just 3 hours

**• Tiles installation after just 4 hours with suitable adhesive**

- Rooms treated with the product back in use after just 1 day
- **Leed Italy** credits: up to 2 points for regional materials



**HEADQUARTES**

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