### REPAIRING SEWERAGE SYSTEMS

# Installation of acidresistant coatings



### **Sewament 1**



High performance, fast setting cementitious adhesive with no vertical slip and high chemical resistance for the installation of ceramic floor and wall tiles in water purification plants and sewerage systems.

and sewerage systems.

Sewament 1 is used for the installation of acid-inhibiting floor and wall coverings, such as gres, ceramic, klinker and special stone bricks, for the reparation of precast or placed concrete water purification plants and sewerage systems.

Sewament 1 is made up of special

Sewament 1 is made up of special hydraulic binders, special selected graded aggregates, water retaining additives and polymers. Sewament 1 is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids. Sewament 1 mixed with water becomes a plastic mortar that is easily workable with a notched trowel and can be applied between 3 and 15 mm thick, depending on

between 3 and 15 mm thick, depending on the type of acid-inhibiting floor and wall covering that will be installed. It is recommended to install the covering using the back-buttering method, applying the adhesive both on the installation bed and on the back of the tile.

### Consumption

approximately 1.4 kg/m² per mm of thickness.

### Packaging

25 kg bags.



### **Sewament 2**



High performance, ready mix, cementitious mortar for grouting ceramic floor and wall tiles in sewerage systems (width of joint up to 15 mm).

Sewament 2 is used to grout joints of acid-inhibiting floor and wall coverings, such as gres, ceramic, klinker and special stone bricks, for the reparation of precast or placed concrete water purification plants and sewerage systems.

Sewament 2 is made up of special hydraulic binders, special selected graded aggregates, water retaining additives and powder polymers. Sewament 2 is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

Sewament 2 mixed with water becomes a plastic mortar that is easily workable. It is suitable for joints up to 15 mm wide. If applied correctly, the grouted joints have excellent resistance to chemicals in contact with highly acid refluent water, high resistance to sulpha-bacteria and high resistance to abrasion produced by water with a high content of sand. Furthermore it has low shrinkage, therefore the absence of cracks.

### Consumption

depending on the type of material and the width of the joint.

### Packaging

25 kg bags.



Sealing and waterproofing expansion joints and cold joints

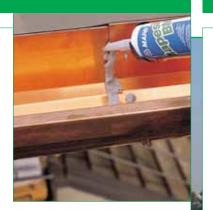
SEALING AND WATERPROOFING EXPANSION JOINTS AND COLD JOINTS

127





### **Mapesil BM**



Odourless, neutral cross-linking, low modulus silicone sealant for movement joints with maximum 25% expansion of initial size, suitable for water draining systems and for

general use.
Flexible sealing of interior and exterior expansion joints between precast reinforced concrete panels, concrete elements and PVC. Especially suitable for sealing between metal such as ventilating pipes, cabling passages, stringcourses, waterspouts, etc.

Mapesil BM is classified F-25-LM in

compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

Packaging boxes of 25 pcs (310 ml cartridges).

### Mapesil LM



One-component, neutral cross-linking, low modulus silicone sealant for movement joints with maximum 25% expansion of the initial size.

Flexible sealing of interior and exterior expansion joints of ceramic wall tiling as well as of windows, mirrors, metals, PVC, polycarbonate etc. Also suitable for sealing these materials among themselves and with wood, concrete, etc. Especially suitable for flexible sealing of

external façades even those covered with limestone sensitive-to-acids. It does not

Unsuitable for continuous water immersion.

Mapesil LM is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

Packaging boxes of 25 pcs (310 ml cartridges).





Jihlava water-park - Czech Republic Waterproofing the swimming pools with: MAPELASTIC, MAPESIL AC Ceramic tiles laid with: KERABOND + ISOLASTIC, KERAPOXY

### Mapesil Z



### Universal acetic-cross-linking silicone

Mapesil Z is formulated for use as a sealant and for forming perfectly elastic gaskets between various elements used in construction, mechanical engineering, ship-building, automobile manufacturing, and other industries.

Mapesil Z is a silicone sealant with acetic cross-linking in a thixotropic paste easily applied horizontally or vertically. Mapesil Z cross-links at ambient

temperatures, forming an elastic material. When applied on concrete or wood, first apply Primer FD.

Colours: transparent, white.

### Consumption

depending on the size of the joint.

**Packaging** boxes of 25 pcs (280 ml cartridges).

### **Mapeflex AC4**



#### One-component acrylic sealant in water dispersion.

Sealing fraction joints in ceramic tile, marble or natural stone facings Sealing expansion joints with expansion up to 10% of the initial size.
Forming flexible gaskets between building

Mapeflex AC4 can be applied on all absorbent surfaces including concrete, wood, gypsum, plaster, brick, foam

concrete, natural stone, etc.

Mapeflex AC4 seals are highly resistant under severe weather conditions, remaining flexible at temperatures as low as -30°C and as high as +80°C.

### Consumption

depending on the size of the joint.

Packaging boxes of 25 pcs (310 ml cartridges), 25 kg drums.



### **Mapeflex PU20**



Two-component, self-levelling, polyurethane sealant for horizontal movement joints with expansion up to 10% of the initial size.

Mapeflex PU20 is a two-component, epoxy-polyurethane resin-based sealant with special catalysers.

When the two components are carefully mixed together, an homogenous paste with a fluid consistency is obtained, which is easy to pour into joints.

Mapeflex PU20 may only be applied on horizontal surfaces.

Mapeflex PU20 is used to form flexible of interior and exterior movement joints (expansion, separation, control joints, etc.) in ceramic, concrete, wood, etc. floors subject to heavy traffic such as stores,

garages, supermarkets etc.

Mapeflex PU20 is classified F-7.5 in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### **Packaging**

10 and 5 kg drums (A+B).



# **Mapeflex PU30**



#### Two-component thixotropic polyurethane sealant.

Mapeflex PU30 is a two-component thixotropic sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hardener (part B). Mixing the two components produces a uniformly coloured thixotropic paste easily

workable with a flat trowel.

Mapeflex PU30 can be used on both vertical and horizontal surfaces. Use **Mapeflex PU30** for flexible sealing of expansion joints in concrete walls. More in general, for vertical structures, both interior and exterior, where a thixotropic product with high resistance to chemical agents and waterproof is required. Sealing joints in ceramic tile floors subject to heavy traffic such as supermarkets, industrial areas with forklift trucks, sidewalks, pedestrian crossings, arcades, squares, etc. Sealing construction joints in concrete floors of car parks and industrial buildings subject to vehicle traffic. Flexible sealing of industrial machine beds, piping, discharges, drains, joints in rubber and PVC flooring.

Mapeflex PU30 is classified F-7.5 in compliance with ISO 11600 standards.

**Consumption** depending on the size of the joint.

10 and 5 kg drums (A+B).





Linate airport - Milan - Italy Sealing of the runway joints with: MAPEFLEX PB27



### Primer M



#### One component, solvent-free primer for non-absorbent surfaces.

Primer M is a one component, solvent-free polyurethane primer used to improve the bonding of polyurethane sealants, such as Mapeflex PU45, Mapeflex PU50 SL and Mapeflex PU55 SL, and adhesives, such as Ultrabond P990 1K and Mapegum PU 1K, on non-absorbent surfaces, such as metals (iron, steel, aluminium, copper, zinc-plated sheets), ceramics, klinker, glass and painted sheets.

**Primer M** is ready for use, and is applied by brush or a roller in a thin, uniform coat. The successive sealant or adhesive must only be applied once the primer is no longer sticky to the touch, after approximately 40 minutes at +23°C and 50% R.H.

### Consumption

50-60 g/m<sup>2</sup> (10-12 g/m for a joint with a depth of 1 cm).

### **Packaging**

250 g cans



### **Mapeflex PU40**



### One component thixotropic polyurethane sealant with a low modulus of elasticity. Mapeflex PU40 is a one component

flexible sealant, made from polyurethane with a thixotropic consistency. It is used to seal expansion and distribution joints on internal and external horizontal and vertical surfaces subject to movements up to 25% in prefabricated panels, façades on buildings for civil and industrial use and concrete floors in car-parks, supermarkets, shopping centres and warehouses. Mapeflex PU40 bonds well to concrete and natural stone substrates, even if a primer is not applied. However, we recommend using Primer AS on surfaces which are not solid enough or which have a slightly dusty surface, or when the joints are subject to high mechanical stress or frequent, long periods of contact with liquids. If it is applied on non-absorbent surfaces, such as iron, steel, aluminium, copper, zinc-plated sheet, ceramic, glass and painted sheet steel, Mapeflex PU40 forms a good bond. To further improve bonding, we recommend applying **Primer M** in certain conditions. The product is ready to use and is available in recyclable aluminium cartridges, which makes application of the product easy with the use of a special extrusion gun.

### Consumption

according to the size of the joint.

**Packaging** boxes of 20 cartridges (each cartridge contains 600 ml).

Mapeflex PU40 is classified as F-25LM according to ISO 11600 standards.





### Mapeflex PU45



One component, thixotropic, rapid-hardening polyurethane sealant and adhesive with a high modulus of elasticity.

Mapeflex PU45 is used for sealing expansion and distribution joints in concrete walls and floors subject to movement up to 7.5%, in internal and external car-parks, supermarkets, shopping centres and warehouses. It may also be used as an adhesive for bonding various materials together on a wide range of substrates. Mapeflex PU45 offers a perfect bond for stone and brickwork, metallic elements, such as flashing and guttering, wooden and plastic baseboards, cable beads and decorative gypsum elements

Mapeflex PU45 is a one component, thixotropic, rapid-hardening and flexible polyurethane compound, that is particularly easy to apply on both horizontal and vertical surfaces using a special extrusion gun or by trowel.

Mapeflex PU45 bonds well to concrete

Mapeflex PU45 bonds well to concrete and natural stone substrates, even if they have not been primed. However, we recommend the use of Primer AS if the surface is weak, or has a slightly powdery surface, if the joints are subject to high mechanical stress or in frequent, prolonged contact with liquids. Good adhesion is obtained when Mapeflex PU45 is applied to surfaces which are not absorbent, such as iron, steel, aluminium,

painted sheet. However, to further improve bonding, we recommend that under certain conditions, the substrate material is treated with **Primer M**. The product is ready to use and is available in recyclable aluminium tubes, equipped with a special extrusion gun which makes the product particularly easy to use.

copper, ceramic, glass, zinc-plated or

with a special extrusion gun which makes the product particularly easy to use. **Mapeflex PU45** is classified F - 20HM in compliance with ISO 11600 standards.

### Consumption

- used as sealant: according to the size of the joint;
- used as adhesive: according to the method used (formation of a bead or spot-application).

### Packaging

boxes of 20 pcs. (600 ml soft cartridges).



### **Mapeflex PU50 SL**



One component, fluid, polyurethane sealant with a low modulus of elasticity for sealing flooring joints subject to movements up to 25%. Mapeflex PU50 SL is a one component, flexible polyurethane-based sealant which is easy to apply, for use on horizontal surfaces or surfaces with a maximum slope of 2%.

Mapeflex PU50 SL is used for sealing expansion and distribution joints in internal and external horizontal surfaces subject to movements of up to 25% of their original size under continuous use.

Mapeflex PU50 SL bonds well to concrete and natural stone substrates, even if they have not previously been primed. However, we recommend the use of **Primer AS** if the surface is not solid enough, if it has a slightly powdery surface or if the joints are subject to high mechanical stress or frequent, prolonged contact with liquids. If Mapeflex PU50 SL is applied on surfaces which are not absorbent, such as iron, steel, aluminium, copper, ceramic, glass or zinc-plated or painted sheet, adhesion may be improved if the material is treated with **Primer M**.

The product is ready to use and is available in recyclable aluminium tubes, equipped with a special extrusion gun which makes the product particularly easy to use.

Mapeflex PU50 SL is classified F - 25LM in compliance with ISO 11600 standards.

### Consumption

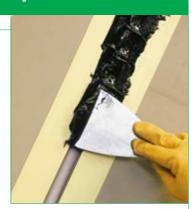
according to the size of the joint.

### Packaging

boxes of 20 pcs. (600 ml soft cartridges).



### **Mapeflex PB25**



Two-component, flexible, polyurethane resin and special bitumen based sealant with thixotropic consistency and resistant to hydrocarbons.

Mapeflex PB25 is a two-component thixotropic sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hardener (part B). By mixing the two components of Mapeflex PB25, a black coloured thixotropic paste, easily workable with a flat trovel is obtained.

trowel, is obtained.

Use Mapeflex PB25 for flexible sealing of joints in concrete walls. More in general, for vertical structures, both interior and exterior, where a thixotropic product with high resistance to chemical agents, hydrocarbons and waterproof is required. Sealing joints in airport runways, construction joints in concrete floors of car parks, service areas and industrial buildings subject to vehicle traffic. Flexible sealing around machine beds in industry where resistance to hydrocarbons is required.

Mapeflex PB25 is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

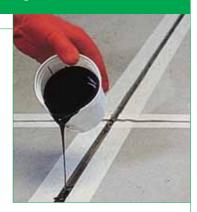
depending on the size of the joint.

### **Packaging**

10 kg drums (A+B).



### **Mapeflex PB27**



### Two-component, self-levelling, flexible sealant based on polyurethane polymers modified with hydrocarbon resins.

Mapeflex PB27 is a two-component self-levelling sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hydrocarbon resin-based hardener (part B). Mix the two components accurately together to obtain a self-levelling black-coloured paste that flows easily. Mapeflex PB27 is used for sealing of expansion joints, highly resistant to hydrocarbons.

Mapeflex PB27 is formulated for sealing expansion joints in airport runways, highways, parking lots and garages, service areas and structures subject to vehicle

Mapeflex PB27 is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### **Packaging**

10 and 5 kg (A+B) drums.



### Mapeband



#### Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid membranes

For sealing and waterproofing joints to wall and floor of baths, showers, terraces balconies, etc., that are to be tiled with ceramic tiles, marble, natural stones. Mapeband can be used with any type of substrate: concrete, wood, plasterboard,

Mapeband must be bonded on surfaces which are free of oil, paint, dust and loose parts using Adesilex PG4, Mapelastic and Mapegum WPS (choose the product to use according to the type of application to be carried out).

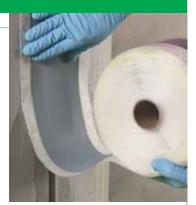
Strips of Mapeband may be joined with Adesilex T, Adesilex T Super or Adesilex LP.

### **Packaging**

rolls of 50 m x 12 cm; sealing gasket for outlets 118 x 118 mm and 300 x 300 mm; inside corner 90°: outside corner 270°.



### **Mapeband TPE**



TPE tape for flexible sealing and waterproofing expansion joints and cracks subject to movements up to 5 or 10 mm, using Mapeband TPE 170 or Mapeband TPE 325 respectively. It is particularly recommended for waterproofing expansion joints in road-works, water tunnels and covering

applications.

Mapeband TPE must only be bonded on surfaces which are free of oil, paint, dust and loose parts using Adesilex PG4 or Mapelastic (choose the product to use according to the type of application to be carried out). Straps of Mapeband TPE may be joined by carrying out using the "coldweld" technique by applying contact adhesive, such as Adesilex LP poly-chloroprene adhesive in solvent, on both surfaces.

- Packaging
   Mapeband TPE 170:
- 30 m x 17 cm rolls; Mapeband TPE 325: 30 m x 32.5 cm rolls.





### **Adesilex PG4**



Two-component, thixotropic, epoxy adhesive with modified-rheology for bonding Mapeband, Mapeband TPE, PVC braces, Hypalon and for structural bonding.

Adesilex PG4 is a two-component adhesive made up of an epoxy resin base, fine-grained selected aggregates and special admixes.

Adesilex PG4 is used both as an adhesive

for bonding synthetic braces used in waterproofing applications and for repairing, sealing and bonding elements in concrete, reinforced cement, metal and

natural stone.

Adesilex PG4 is characterised by its low viscosity and, as a result, offers good wetting of the substrate. This makes it easy to apply by trowel on horizontal and vertical surfaces and on ceilings without dripping, thanks to it being highly thixotropic.

To prepare the product, pour component B (white) into component A (grey) and mix together with a drill fitted with a low-speed mixing attachment until a homogenous mix is obtained.

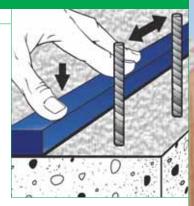
### Consumption

1.55 kg/m² per mm of thickness.

### Packaging 6 kg (A+B); 30 kg (A+B).



### Idrostop



Hydrophilic expandable rubber section for watertight construction joints.

Idrostop is a soft preformed flexible strip, with an acrylic polymer base specially designed to form watertight construction joints up to a hydraulic pressure of 5 atm. **Idrostop** does not contain bentonite. Due to its chemical composition Idrostop gradually expands when in permanent contact with water, creating an active barrier against pressurized water (positive and negative).

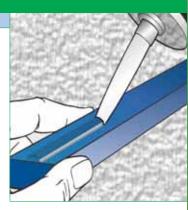
Idrostop strip can be applied to concrete, metal, PVC and natural stone with Idrostop

Mastic, a ready-to-use solvent-free one-component adhesive with a base of MS polymers.

Packaging Idrostop is supplied in 3 sizes in carton

- **Idrostop 10** (size 20x10 mm): 6 rolls of 10 m;
- Idrostop 15 (size 20x15 mm): 6 rolls of 7 m; Idrostop 25 (size 20x25 mm): 6 rolls of 5 m.

### **Idrostop Mastic**



#### One-component adhesive for the installation of Idrostop.

Idrostop Mastic is a ready-to-use solvent-free one-component MS polymer based adhesive. On extrusion, it is a thixotropic paste suitable for horizontal and vertical application that cures with humidity at a temperature between +10°C and +40°C to form an elastic product.

Idrostop Mastic also adheres perfectly to

slightly damp surfaces provided they are perfectly clean and solid.

To apply, extrude the adhesive onto the surface on the previously cut to size **Idrostop**, or directly onto the concrete. Press **Idrostop** onto the substrate, gently firming it in all directions to ensure complete adhesion.

Concrete can be poured after 24 hours.

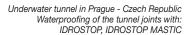
### Consumption

approximately 290 ml per 12 m of Idrostop.

carton boxes containing 24 cartridges of 290 ml.







# SEALING AND WATERPROOFING

# **EXPANSION JOINTS AND COLD JOINTS**





### **Idrostop B25**



### Waterstop profile made from natural sodium bentonite and polymers.

Idrostop B25 is a waterstop product made from a mixture of natural sodium bentonite and polymers, which give the product excellent characteristics of compactness, flexibility and stability, according to a formula developed in MAPEI's own research laboratories.

Swelling takes place in a controlled, uniform and gradual manner without the risk of altering the equilibrium of the mixture. When **Idrostop B25** expands, which take place when it comes into contact with water, it adapts perfectly to the volume required, to form a perfect seal in construction joints.

Idrostop B25 perfectly seals localised formations of honeycombs voids which are present in the structure of the concrete.

**Packaging** 6 rolls (section of 20x25 mm), each roll is



### **Idrostop PVC BI**



### **PVC** waterstop for sealing structural

For waterproofing structural joints in civil, industrial and hydraulic constructions. Used for sealing joints in cement constructions used to contain water, such as swimming pools, water tanks and dams. and for protecting structures below ground level from the water table.

- Packaging Idrostop PVC BI is available in three sizes: Idrostop PVC BI20 (width 20 cm) in 25 m-long rolls;
- Idrostop PVC BI25 (width 25 cm)
- in 25 m-long rolls; Idrostop PVC BI30 (width 30 cm) in 25 m-long rolls.

### Idrostop PVC BE



#### **PVC** waterstop for sealing structural joints.

For waterproofing structural joints in civil, industrial and hydraulic constructions. Used for sealing joints in cement constructions used to contain water, such as swimming pools, water tanks and dams and for protecting structures below ground level from the water table.

#### **Packaging**

Idrostop PVC BE is available in two sizes:
- Idrostop PVC BE20 (width 20 cm)

- in 25 m-long rolls; Idrostop PVC BE24 (width 24 cm)
- in 25 m-long rolls.



135

# **Admixtures for mortar and concrete**



### **Idrosilex**



### Integral waterproofer for cementitious mortars.

Use **Idrosilex** to obtain waterproof renders and screeds.

Idrosilex is especially recommended for waterproofing basements, swimming pools, reservoirs, tunnels etc.

Idrosilex is a product based on waterproofing additives available both as a liquid and a powder. To use Idrosilex Powder, add it to the batch of dry cement and sand and mix with water until a completely uniform mixture is obtained. To use Idrosilex Liquid, dilute it in the mixing water. The mix obtained with Idrosilex is applied like any normal rendering mortar.

### Consumption

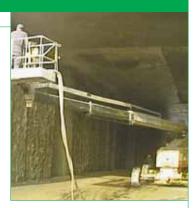
- Idrosilex Liquid: 3-5 kg per 100 kg of cement.
- Idrosilex Powder: 2-4 kg per 100 kg of cement.

### **Packaging**

- Idrosilex Liquid: 25 kg and 6 kg drums.
- Idrosilex Powder: 25x1 kg boxes.



### Mapeplast SF



# Microsilica-based powdered additive with pozzolanic action for high quality mortars and concrete.

mortars and concrete.

Mapeplast SF improves all the properties of concrete and in particular it provides greater cohesion to the fresh mix, high mechanical strength, greater impermeability and durability against aggressive liquid and gaseous agents.

Mapeplast SF facilitates the pumping of fluid concrete, with low cement factor. Add 5-10% of Mapeplast SF to the dry aggregate-cement mixture and mix until completely dispersed, then mix in the water and add the desired plasticiser or superplasticiser. The mix with Mapeplast SF is poured and worked in the same way as a normal concrete.

### Consumption

20-60 kg/m3 of mix.

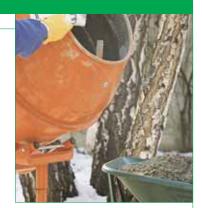
### Packaging

20 kg bags. Available in big bags or in bulk on request.

Also available in 10 kg water soluble bags.



### **Antifreeze S**



### Chloride-free antifreeze for cementitious mortars and concrete.

Antifreeze S is used to prepare mortars and concrete (including reinforced) for use at ambient temperature as low as to -10°C. Antifreeze S is particularly ideal for obtaining considerable increases in initial mechanical strength in 3 days even at low temperatures, together with quicker and safer removal of formwork and the elimination of the danger of frost on the concrete.

Antifreeze S is an additive based on accelerators for hardening concrete which accelerate hydration without affecting the normal setting time, provided that it is used in the recommended quantity.

Add **Antifreeze S** to the mixer with cement, aggregate and water. Mix for several minutes until a homogeneous mixture is obtained.

### Consumption

Antifreeze S Powder:
1-2 kg per 100 kg of cement.
Antifreeze S Liquid:
0.75-1.5 l per 100 kg of cement.

### **Packaging**

Antifreeze S Powder: boxes of 24x1 kg. Antifreeze S Liquid: 6, 12 and 30 kg drums - 200 l drums - 1000 l tanks. Also available in bulk on request.





### **Expancrete**



#### Expansive agent for concrete.

Expancrete is a powder admixture used to manufacture shrinkage-compensated concrete and mortars.

Expancrete is suitable for water tight castings and castings that require a contrast to concrete hygrometric shrinkage (water tanks, piping, floors, etc.). Add Expancrete to the mixer at the same time as the other ingredients (cement, aggregates, water). **Expancrete** is used only for reinforced

concrete.

### Consumption

from 5 to 8 kg per 100 kg of cement.

20 kg drums. 10 kg water soluble bags. Also available on request in big bags or



### **Mapecure SRA**



# Curing admix with the property of reducing hydraulic shrinkage and the

formation of micro-cracking.

Mapecure SRA is a special, chloride-free liquid admix, specially developed to drastically reduce final hydrometric shrinkage of repair mortar from the Mapegrout range, standard or selfcompacting concrete and repair concrete mixed using **Stabilcem CC** in order to eliminate cracking.

The best results are obtained when

Mapecure SRA is mixed with controlledshrinkage repair mortar or in combination with concrete which contains Expancrete. It allows these systems to expand even further during the first few days of hardening whether they are damp-cured or air-cured. When **Mapecure SRA** and Expancrete are used together, there is the combined effect of the advantages of each single product, which are greatly amplified to guarantee that mortar and concrete perform far better than traditional cementite systems. Mapecure SRA is compatible with all traditional, naphthalene sulphonatebased super-plasticising adhesives from the **Mapefluid** range, acrylic admixes from the **Dynamon** range and with all types of cement according to EN 197/1.

### Consumption

- mortar: 0.25-0.5% in weight of the mix;
- concrete: 5-8 l/m<sup>3</sup>.

### **Packaging**

20 kg drums; 0.25 kg bottles.



### Mapestart 1



### Pumping aid admix for mortar and

Mapestart 1 is a powder admix developed to lubricate tubes and pumping lines, and helps the cementitious mix to start flowing. Mapestart 1 may be mixed easily with water directly inside the hopper. Once the admix has been emptied from the hopper, the cementitious mix may be pumped. Never add **Mapestart 1** to the mix.

Mapestart 1 forms an extremely thin film in the pumping lines, which reduces friction between the walls of the pipes and the cementitious mix pumped along them, to reduce the risk of blockages.

Also, if Mapestart 1 is used at the end of the pumping operations, the pipes will be cleaner and will have a longer service life.

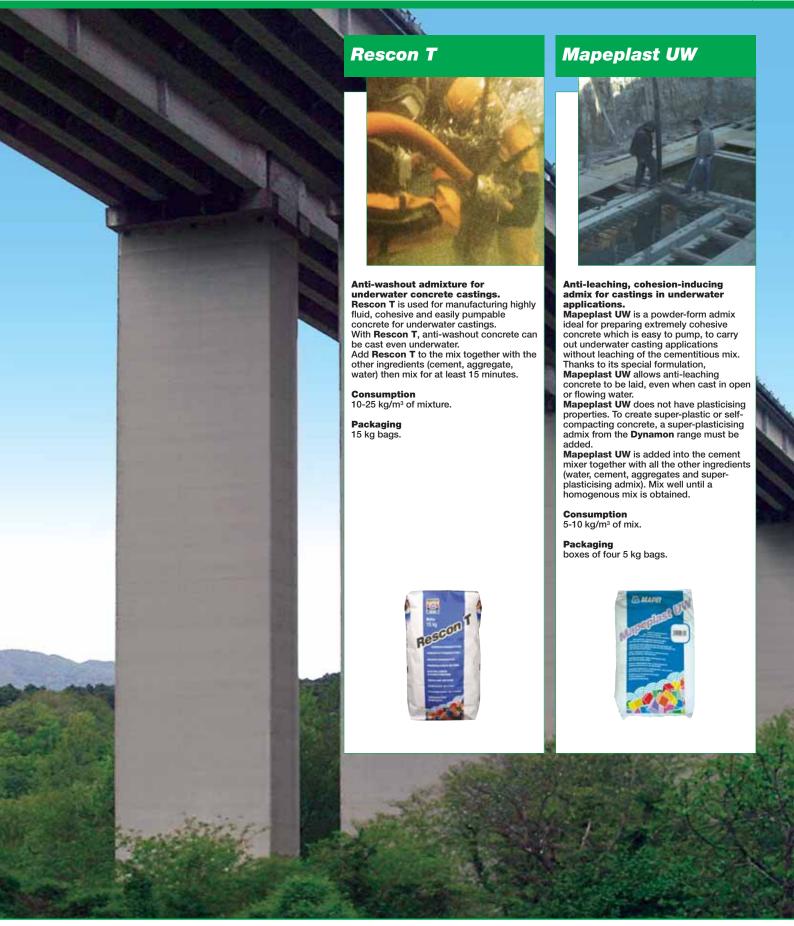
### Consumption

Dependent on the characteristics of the pump (size and power) and the pumping lines (length and size).

Packaging boxes of forty 225 g bags.



Gordana viaduct -Parma-La Spezia stretch - Italy Products used: MAPECURE SRA, EXPANCRETE, MAPECURE S, MAPELASTIC, STABILCEM SCC





# **Curing agents**

### Elastocolor Primer



Solvent-based fixing primer with high penetration properties for porous substrates and curing agent for repair mortars

Elastocolor Primer is used to impregnate concrete surfaces repaired with products from the **Mapegrout** line before smoothing or painting with Elastocolor Rasante or with Elastocolor Paint. The product penetrates into porous substrates and ensures excellent insulation and good adherence to the paint that will be applied.

Elastocolor Primer is also used as a curing agent for repair renders and mortars and can be directly painted over with

Elastocolor Paint. The product does not
need to be removed before painting the repaired surfaces because it does not reduce the bonding strength of the protective material to the substrate. Elastocolor Primer is ready-to-use. If the product is used as a fixing primer before painting on a slightly porous substrate, dilute **Elastocolor Primer** with 20-30% turpentine. If it is used as a curing agent, apply **Elastocolor Primer** pure directly on the fresh surfaces after the float finishing. The product can be applied with a brush, roller or manual or compressed air pump.

### Consumption

100-150 g/m² used as a fixing primer. 110-150 g/m² used as a curing agent.

### **Packaging**



### Mapecure CA



Solvent-based film-forming curing compound for mortars and concrete; may be painted over.

Mapecure CA is used as a solvent-based

curing compound for renders, cementitious mortars and fresh concrete, to minimize crazing during the plastic phase due to the rapid evaporation of the mixing water

caused by wind and sunlight.

Mapecure CA is a product based on resins in organic solvents which forms a uniform film on concrete that is impermeable to water and air.

The product is in compliance with UNI 8657 and UNI 8658 for film-forming products for the protection of concrete.

Mapecure CA should be applied evenly and thinly by roller or spray with a manual pump or compressed air on the mortar or concrete surface. For concrete formwork Mapecure CA must be applied

immediately after demoulding. Mapecure CA is ready-to-use, therefore must never be diluted with solvents. Mix the product well before application.

**Dosage** 110-150 g/m².

### **Packaging**

10 kg drums.

### Mapecure E



Curing compound in water emulsion. Mapecure E is used to protect fresh concrete from rapid water evaporation caused by wind or sunlight. Its use is especially suitable for floors, airport runways, hydraulic structures and highways to avoid cracking due to plastic shrinkage.

Mapecure E forms a slightly elastic film over the concrete that is watertight and vapour-proof.

Mapecure E is supplied in a white water emulsion that can be applied pure or diluted 1:1 with water. It can be applied with a manual back-pack pump or with a low pressure compressed air gun. Application: spray.

### Consumption

 full-strength: 70 to 100 g/m².
 diluted: 1:1 in volume with water: 140 to 200 g/m<sup>2</sup>.

### **Packaging**

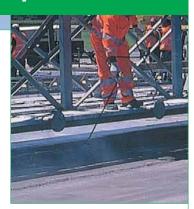
25 kg drums; 200 l drums; 1000 I tanks.





### **Biblock** Two-component, epoxy curing compound in water dispersion, with consolidating and anti-dust properties. Biblock is a transparent, epoxy impregnation product, which is particularly recommended to guarantee good curing of concrete used for laying industrial floors, access ramps, runways, canals, storage tanks, etc. To function correctly, **Biblock** must be applied on concrete which is still fresh. Due to its capability of penetrating into absorbent materials, Biblock may be used as a consolidator and anti-dust treatment for cementitious screeds and mechanically weak industrial floors. Biblock is supplied in kits of two preweighed components, which must be mixed together until they are completely homogenous and then be diluted with up to 20% of water, before application. **Biblock** is easy to apply by brush, roller or by spraying, on either horizontal or vertical surfaces, which must be clean and free of crumbly or loose parts. Consumption approximately 100-150 g/m² according to the absorbency of the substrate. **Packaging** 5 kg kits (A+B).

### Mapecure S



Solvent-based film-forming curing compound for mortars and concrete. Mapecure S is used as a solvent-based curing compound for renders, cementitious mortars and fresh concrete, to minimize the formation of cracks produced by rapid evaporation of the mixing water caused by wind and sunlight.

The use of **Mapecure S** is especially suitable for industrial floorings, airport runways, hydraulic structures and highways.

Mapecure S is a product based on resins in organic solvents that form a uniform film over concrete, impermeable to water and air. The product is in compliance with UNI 8657 and UNI 8658 for film-forming products for the protection of concrete. Mapecure S must be applied by roller or sprayed with manual pumps or compressed air onto the surface of the mortar or concrete in a thin uniform layer. For formwork concrete, Mapecure S must be applied immediately after stripping. Mapecure S is ready-to-use, therefore must never be diluted with solvents. Carefully mix the product before its application.

### Consumption 100-110 g/m<sup>2</sup>.

Packaging 24 kg drums; 200 l drums.



### **Mapecure SRA**



Curing admix with the property of reducing hydraulic shrinkage and the formation of micro-cracking.

formation of micro-cracking.

Mapecure SRA is a special, chloride-free liquid admix, specially developed to drastically reduce final hydrometric shrinkage of repair mortar from the Mapegrout range, standard or self-compacting concrete and repair concrete mixed using Stabilcem CC in order to eliminate cracking.

The best results are obtained when Mapecure SRA is mixed with controlled-shrinkage repair mortar or in combination with concrete which contains Expancrete. It allows these systems to expand even further during the first few days of hardening whether they are damp-cured or air-cured. When Mapecure SRA and Expancrete are used together, there is the combined effect of the advantages of each single product, which are greatly amplified to guarantee that mortar and concrete perform far better than traditional cementite systems. Mapecure SRA is compatible with all traditional, naphthalene sulphonate-based super-plasticising adhesives from the Mapefluid range, acrylic admixes from the Dynamon range and with all types of cement according to EN 197/1.

### Consumption

- mortar: 0.25-0.5% in weight of the mix;
- concrete: 5-8 I/m<sup>3</sup>.

#### Packaging 20 kg drums; 0.25 kg bottles.







# **Form Release Agents**



# Form Release Agents DMA 2000



#### Universal form release agent with chemical and physical action.

DMA 2000 is used for all types of timber, iron, steel, aluminium and plastic form, to provide a perfect release of the form from cast concrete.

The use of **DMA 2000** results in clean faced concrete without grease stains, even when white cements are used. DMA 2000 is also recommended for steam-cured concrete.

DMA 2000 is based on synthetic oils and special additives, together with corrosion inhibitors.

Characterized by high fluidity, DMA 2000 is a ready to use product and therefore no water or solvents need to be added before application.
Apply **DMA 2000** by brush or spray with

a portable pump.

### Consumption

from 20 to 40 g/m², depending on the type of form used.

### **Packaging**

200 I, 23 and 4.5 kg drums; 1000 I tanks Also available in bulk on request.



# Form Release Agents DMA 3000



#### Form release agent based on vegetable oil in water emulsion with chemical and physical action for improving façades.

DMA 3000 is used for all types of timber, iron, steel, aluminium and plastic form, to provide a perfect release of the form from . cast concrete.

The use of DMA 3000 results in clean faced concrete without air bubbles and grease stains, even when white cements are used.

DMA 3000 is also recommended for

steam-cured concrete.

DMA 3000 is based on vegetable oils and special additives, together with corrosion inhibitors.

Characterised by high fluidity, DMA 3000 is a ready to use product, therefore no water or solvents need to be added before

application.
Apply **DMA 3000** by brush or spray with a portable pump.

### Consumption

from 15 to 25 g/m², depending on the type of form used.

### **Packaging**

200 l, 23 and 4.5 kg drums; 1000 I tanks. Also available in bulk on request.



Dam on the Alaco river - Mammone S. Sostene - Italy Mapei products used: MAPEGROUT T40, MAPELASTIC, MAPEBAND, ADESILEX PG1, FORM RELEASE AGENT DMA 2000



# **Mapei Group**

### **Europe**



### AUSTRIA - Mapei GmbH

Fräuleinmühle 2 A - 3134 Nußdorf ob der Traisen Tel. +43-2783-8891 Fax +43-2783-8893 Internet: http://www.mapei.at E-mail: office@mapei.at Plant in Traismauer

Distribution centres in Wien, Hall in Tirol and Graz



### BENELUX - Mapei Benelux SA/NV

Zoning Industriel Rue de l'Avenir, 40 B - 4460 Grâce-Hollogne Tel. +32-4-2397070 Fax +32-4-2397071 Internet: http://www.mapei.be E-mail: mapei@mapei.be For the Netherlands: Tel. +31-43-3510498 Fax +31-43-3510499



### CROATIA - Mapei Croatia d.o.o.

Visnjevac 18 - 10000 Zagreb Tel. +385-1-3647789 Fax +385-1-3647787 Internet: http://www.mapei.com E-mail: mapei@mapei.hr



### **CZECH REPUBLIC**

Mapei spol. s r.o. Smetanova 192 - 77211 Olomouc Tel. +420-585224580

Fax +420-585227209 Internet: http://www.mapei.cz E-mail: info@mapei.cz Distribution centre in Prague



#### FRANCE - Mapei France SA Zone Industrielle du Terroir

Avenue Léon Jouhaux, 29 31140 Saint Alban Tel. +33-5-61357305 Fax +33-5-61357314 Internet: http://www.mapei.fr E-mail: mapei@mapei.fr Plants in Saint Alban and Montgru



### GERMANY - Mapei GmbH

Bahnhofsplatz 10 - 63906 Erlenbach Tel. +49-9372-98950 Fax +49-9372-989548 Internet: http://www.mapei.de E-mail: mailto@mapei.de Plant in Weferlingen



#### GREAT BRITAIN - Mapei U.K. Ltd Mapei House

Steel Park Road - Halesowen West Midlands B62 8HD Tel. +44-121-5086970 Fax +44-121-5086960 Internet: http://www.mapei.com E-mail: sales@mapei.co.uk Plant in Halesowen



### **GREECE - Mapei Hellas SA**

Papadiamantopoulou 24 C 11528 Athens Tel. +30-210-7472983 Fax +30-210-7472953 Internet: http://www.mapei.gr E-mail: mapeihellas@mapei.gr



**HUNGARY - Mapei Kft** Sport Utca 2 - 2040 Budaörs Tel. +36-23-501667 Fax +36-23-501666 Internet: http://www.mapei.hu E-mail: mapei@mapei.hu Plant in Sóskút Distribution centres in Györ, Kaposvàr

and Miskolc



### NORWAY - Rescon Mapei AS

Vallsetvegen 6 - 2120 Sagstua Tel. +47-62-972000 Fax +47-62-972099 Internet: http://www.resconmapei.com E-mail: post@resconmapei.no Plant in Sagstua



### POLAND - Mapei Polska Spzoo

ul. Gustawa Eiffel'a, 14 - 44-109 Gliwice Tel. +48-32-7754450 Fax +48-32-7754471 Sales office: Chałubińskiego Street 8, 00-613 Warsaw Tel. +48-22-5954200 Fax +48-22-5954202

Internet: http://www.mapei.pl E-mail: info@mapei.pl Plant in Gliwice



### PORTUGAL - Lusomapei S.A.

Business Parque Tejo XXI Estrada Nacional 1 - Km 19,65, Gelfas 2600-659 Castanheira do Ribatejo Tel. +351 263 860 360 Fax +351 263 860 369 Internet: http://www.mapei.pt E-mail: geral@mapei.pt Plant in Anadia



### ROMANIA - Mapei Romania SRL

14 Gen. Ion Dragalina Str. Sector 5 - Bucarest Tel. +40-21-3117819 Fax +40-21-3117821 Internet: http://www.mapei.ro E-mail: info@mapei.ro



### **RUSSIAN FEDERATION - ZAO Mapei**

Derbenevskaya nab., 7, building 4, 3-d floor Moscow 113114 Russian Federation Tel. +7-495-258-5520 Fax +7-495-258-5521 Internet: http://www.mapei.ru E-mail: info@mapei.ru Plants in Stupino



### SLOVAK REPUBLIC - Mapei SK sro

Nádražná 39, 900 28 Ivánka pri Dunaji Tel. +421-2-53414 705 / 53414 702 Fax +421-2-5363 2692 Internet: http://www.mapei.sk E-mail: office@mapei.sk



### SLOVENIA - Mapei doo

Kočevarjeva 2 - 8000 Novo Mesto Tel. +386-1-7865050/51 Fax +386-1-7865055 Internet: http://www.mapei.si E-mail: mapei@mapei.si Distribution centre in Grosuplje



### SPAIN - Ibermapei SA

Plaza Cataluña, 20 - 5ª Planta 08002 Barcelona Tel. +34-93-3435050 Fax +34-93-3024229 Internet: http://www.mapei.es E-mail: ibermapei@ibermapei.es Plants in Amposta (Tarragona) and Cabanillas del Campo (Guadalajara) Distribution centres in Badalona (Barcelona), Onda (Castellón) and Marratxi (Mallorca)



### SWEDEN - Rescon Mapei AB

Gelbgjutarevägen 6 - 17148 Solna Tel. +46-8-52509080 Fax +46-8-52509086 Internet: http://www.mapei.se E-mail: info@mapei.se



#### SWITZERLAND - Mapei Suisse SA 1642 Sorens / FR

Tel. +41-26-9159000 Fax +41-26-9159003 Internet: http://www.mapei.ch E-mail: info@mapei.ch Plant in Sorens



### UKRAINE - Mapei Ukraina LLC 01014. Città di Kiev

Ulica Strutinskogo, 8 - 8 Etazh. Tel. +38-044-5024560, 5024563 Fax +38-044-5024566 Internet: http://www.mapei.ua E-mail: mapei@mapei.ua



### **HEAD OFFICE**

# MAPEI SpA Via Cafiero, 22 20158 Milan (Italy) Tel. +39-02-37673.1 Fax +39-02-37673.214 http://www.mapei.com E-mail: mapei@mapei.it

#### **PLANTS**

- Strada Provinciale 159 20060 Robbiano di Mediglia (Milan)
   Tel. +39-02-906911 Fax +39-02-90660575
- Via Mediana S.S. 148 km 81,3 04100 Latina Tel. +39-0773-2548 - Fax +39-0773-250391

### **DISTRIBUTION CENTRE**

#### **SASSUOLO**

Via Valle D'Aosta, 46 - 41049 Sassuolo (Modena) Tel. +39-0536-803<u>116 - Fax +39-0536-805255</u>

### Office in Rome

Viale Libano, 28 - 00144 Rome Tel. +39-06-5929211 - Fax +39-06-59290337

### Office in Lecce

Via Orsini del Balzo, 24 - 73100 Lecce Tel. +39-0832-246551 - Fax +39-0832-248472 E-mail: ufficio.lecce@mapei.it

### Asia-Oceania

Plant in Brisbane



#### **AUSTRALIA - Mapei Australia Pty Ltd** 12 Parkview Drive Archerfield

Brisbane - Queensland 4108
Tel. +61-7-3276 5000
Fax +61-7-3276 5076
Internet: http://www.mapei.com.au
E-mail: mapei@mapei.com.au



#### **CHINA**

### Mapei Construction Materials

(Guangzhou) co. Ltd.
Hong Fu Loi International Building
Rm. 2003-2004, Yan Jiang Zhong Road
Guangzhou P.R. China
Tel. (86-20) 83653489
Fax (86-20) 83653481
E-mail: mapei-gz@mapei-gz.com
Plant in Conghua (Guangzhou)

### CHINA Mapei Construction Materials

(Shanghai) co. Ltd. 6, Lane 8999, Hunan Road, Nanhui District 201314 Shanghai P.R. China Tel. (86-21) 58180808 Fax (86-21) 58180909 E-mail: mapei-sh@mapei-sh.com **Plant** in Nanhui (Shanghai)

### HONG KONG S.A.R. Mapei China Ltd

Suite 15, L22 Office Tower, Langham Place 8 Argyle Street, Mongkok, Kowloon, Hong Kong Tel. +852-21486816 Fax +852-25121328 Internet: http://www.mapei.com.hk

E-mail: mapei@mapei.com.hk



### MALAYSIA Mapei (Malaysia) Sdn Bhd

Plant in Rawang (Kuala Lumpur)

PT 521, Batu 23 - Jalan Rawang Jalan Batang Berjuntai 48000 Rawang - Selangor Darul Ehsan Tel. +60-3-60935799 Fax +60-3-60915801 Internet: http://www.mapei.com.sg E-mail: mapei@tm.net.my



### **NEW ZEALAND - Mapei New Zealand**

30 Fisher Crescent - Mt. Wellington Auckland, New Zealand Tel. +64-9-9211994 Fax +64-9-9211993 Internet: http://www.mapei.co.nz E-mail: info@mapei.co.nz



#### SINGAPORE - Mapei Far East Pte Ltd 28. Tuas West Road

638383 Singapore Tel. +65-68623488 Fax +65-68621012 / 68621013 Internet: http://www.mapei.com.sg E-mail: mapei@mapei.com.sg Plant in Singapore



# UNITED ARAB EMIRATES I.B.S. (Innovative Building Solutions) L.L.C.

P.O. Box 73869, Dubai, UAE Tel. +971-4-3233167 Fax +971-4-3233725 **Plant** in Dubai



### VIETNAM - Mapei Vietnam Ltd.

Plot 8, Street No. 4,
Northern Part of Chu Lai I.Z.
Tam Hiep Commune
Nui Thanh District - Vietnam
Tel. (84-510) 565801-7
Fax (84-510) 565800
Branch in Hanoi:
Tel. (84-4) 9287924-6
E-mail: mapeihn@mapei.com.vn
Branch in Danang:
Tel. (84-511) 3565001
E-mail: mapeidn@mapei.com.vn
Branch in Ho Chi Minh City:
Tel. (84-8) 8206103-4-6
E-mail: mapeihcm@mapei.com.vn
Plant in Chu Lai (Quangham)

### The Americas

Plant in Buenos Aires



### **ARGENTINA - Mapei Argentina SA** Rondeau 51, 1° floor, Wilde

Hondeau 51, 1° floor, Wilde Buenos Aires Tel. +54-11-42070009 Fax +54-11-42171088 Internet: http://www.mapei.com.ar



### CANADA - Mapei Canada Inc

2900, Francis Hüghes Avenue Laval - QUE H7L3J5 Tel. +1-450-6621212 Fax +1-450-6620444 Internet: http://www.mapei.com **Plants** in Vancouver, Laval, Maskinongé and Toronto



### PUERTO RICO - Mapei Caribe Inc

Road 2 km 26.2 BO. Espinosa Dorado, Porto Rico 00646 Tel. +1-787-270-4162 Fax+1-787-270-4135 Internet: http://www.mapei.com Plant in Dorado



### U.S.A. - Mapei Corp

1144 East Newport Center Drive Deerfield Beach, Florida 33442 Tel. +1-954-246-8888 / +1-888-300-4422 Fax +1-954-246-8800 Internet: http://www.mapei.com Plants in Phoenix (AZ), Garland (TX), South River (NJ), Fort Lauderdale (FL), West Chicago (IL), Fredericksburg (VA), San Bernardino (CA) Distribution centre in Anaheim (CA)



### VENEZUELA

Mapei de Venezuela CA
Calle Orinco Torre D&D PB Lc 11-12
Urb. Las Mercedes - 1071 Caracas
Tel. +58-212-991-7797/+58-212-9919423
Fax +58-212-991-7623
Internet: http://www.mapei.com
E-mail: mapeivenezuela@hotmail.com
Plant in Caracas



# MAPEL PRODUCT CERTIFICATIONS FOR THE BUILDING INDUSTRY

PRODUCTS	EC 1	GUEMICO ECI POR PORTO ECI	GREEN INNOVATION	Drop of Effect:	IN COMPLIANCE WITH EUROPEAN STANDARDS EN 13813	( EN 934-2	( EN 13813	(EN 998-1	(EN 1504
Antipluviol				•					
Antipluviol S				•					
Antipluviol W				•					
Colorite Beton									EN 1504-2
Colorite Performance									EN 1504-2
Dynamon SX						•			
Elastocolor Paint									EN 1504-2
Elastocolor Rasante									EN 1504-2
Elastocolor Rasante SF									EN 1504-2
Elastocolor Waterproof									EN 1504-2
Fiberplan					CT-C25-F7-A2 <sub>11</sub>		•		
Idrosilex Pronto									EN 1504-2
Mape-Antique CC								•	
Mape-Antique MC								•	
Mape-Antique Strutturale								•	
Mapecem Pronto					CT-C60-F10-A1 <sub>#</sub>		•		
Mapecoat I 24									EN 1504-2
Mapefer 1K									EN 1504-7
Mapefill									EN 1504-6
Mapefill R									EN 1504-6
Mapefinish									EN 1504-2 EN 1504-3
Mapefloor CPU/HD							•		
Mapefloor CPU/MF							•		
Mapefloor I 300 SL							•		
Mapefloor I 320 SL CONCEPT							•		
Mapefloor I 350 SL							•		
Mapefloor I 500 W						•			
Mapefluid N200						•			
Mapefluid PZ500						•			EN 1504-3
Mapegrout BM									EN 1504-3
Mapegrout Hi-Flow									EN 1504-3
Mapegrout Hi-Flow GF									EN 1504-3
Mapegrout Hi-Flow TI 20									EN 1504-3

		<b>EMIC</b>			<u> </u>				
PRODUCTS	EC1	EC1	GREEN INNOVATION	Effect'	IN COMPLIANCE WITH EUROPEAN STANDARDS EN 13813	<b>C E</b> 934-2	<b>C E N</b> 13813	<b>C E</b> N 998-1	<b>C E</b> N 1504
Mapegrout Easy Flow									EN 1504-3
Mapegrout Easy Flow GF									EN 1504-3
Mapegrout FMR									EN 1504-3
Mapegrout Gunite									EN 1504-3
Mapegrout Fast-Set									EN 1504-3
Mapegrout SV									EN 1504-3
Mapegrout SV Fiber									EN 1504-3
Mapegrout SV T									EN 1504-3
Mapegrout T40									EN 1504-3
Mapegrout T60									EN 1504-3
Mapegrout Thixotropic									EN 1504-3
Mapelastic									EN 1504-2
Mapelastic Foundation									EN 1504-2
Mapelastic Smart									EN 1504-2
Mapesilent Band			•						
Mapesilent Door			•						
Mapesilent Panel			•						
Mapesilent Roll			•						
Mapesilent Tape			•						
Monofinish									EN 1504-2 EN 1504-3
Nivorapid		•	•		CT-C40-F10-A2 <sub>n</sub>		•		
Planitop 100									EN 1504-2
Planitop 200									EN 1504-2
Planitop 400									EN 1504-3
Planitop 430									EN 1504-3
Planitop HDM									EN 1504-2 EN 1504-3
Planitop HDM Maxi									EN 1504-3
Plano 3					CT-C25-F7-A2 <sub>11</sub>		•		
PoroMap Intonaco								•	
PoroMap Intonaco Macchina								•	
Primer G	•		•						
Topcem Pronto		•	•		CT-C30-F6-A1,		•		
Ultraplan	•		•		CT-C30-F7-A2 <sub>n</sub>		•		
Ultraplan Eco	•		•		CT-C25-F7-A2 <sub>11</sub>		•		
Ultraplan Maxi	•		•		CT-C35-F7-A2 <sub>11</sub>		•		

# BUILDING SPECIALITY LINE

Mapei S.p.A.
Via Cafiero, 22
20158 Milan - Italy
Tel. +39-02-37673.1
Fax +39-02-37673.214
www.mapei.com
mapei@mapei.it



