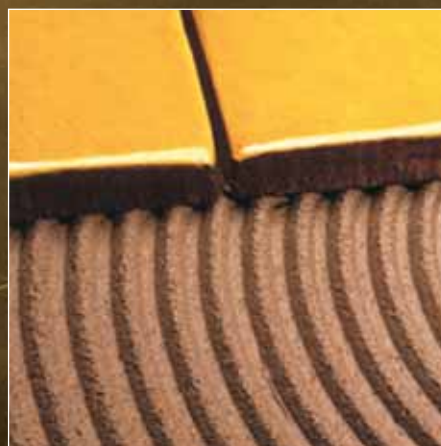


## PRODUCTS FOR CERAMIC TILES AND STONE MATERIALS





# Ceramic tiles and stone material line

Ceramic, porcelain and agglomerate tiles are materials widely used for floors and wall coverings in a multitude of different places and contexts: airports, universities, shopping malls, swimming pools and our own homes, all with their own various colours, features and advanced performance claims. Consequently, products used in the installation of these materials must be in a state of constant evolution, as technical developments go hand in hand with increased simplicity of use and improved durability.

Thanks to its considerable efforts in a range of research fields, Mapei can now boast a complete range of products adapted to all installation systems, on any scale. The range includes cementitious adhesives, paste adhesives, hydraulic binders for screeds, primers, levelling compounds, grouts, sealants and ancillary products suitable for applications until recently considered technically impossible but that now open up a number of exciting new possibilities:

- Repair work without costly demolition.
- Increased speed and efficiency in the execution of work. As a result, work is completed more rapidly.
- Progressive elimination of dangerous products from construction sites.
- Grouts and joints that are not only functional, but may also serve as decorative features.



**All MAPEI adhesives for ceramics and stone material conform to Standard EN 12004**



**All MAPEI grouting mortars for ceramic and stone material conform to Standard EN 13888**

Note: the International Standards ISO 13007-1 and ISO 13007-3 were issued recently, and they also take into account the requirements for the European Standards EN 12004 and EN 13888

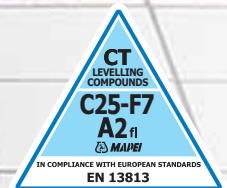
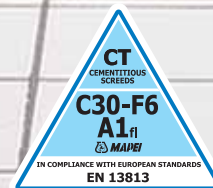
**All MAPEI adhesives have been awarded the CE mark in compliance with Annex ZA, Standard EN 12004**



**Most MAPEI adhesives and grouts have been certified EMICODE EC1 awarded by GEV**



**MAPEI pre-blended mortars for screeds and levelling compounds conform to Standard EN 13813**



**MAPEI mortars for screeds and levelling compounds have been awarded the CE mark in compliance with Annex ZA, Standard EN 13813**



**MAPEI additives for screeds have been awarded the CE mark in compliance with Annex ZA, Standard EN 934-2**



**MAPEI products and systems for the protection of concrete surfaces have been awarded the CE mark in compliance with Annex ZA, Standard EN 1504-2**



MAPEI has always been committed to research and development into products which safeguard the environment, the health of those who use them and of those who use the areas where they are applied, and since 1980, they have developed a series of products which emit an extremely low level of volatile organic compounds. These products have been used for decades on sites all over the world for laying resilient and textile floors, and have been certified "EMICODE EC1" - extremely low emission level of volatile organic compounds" – awarded by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe Klebstoffe und Bauprodukte e.V.), a German association which controls the emission levels of products used for laying floors, adhesives and other materials used in the building industry.

MAPEI's strong commitment to the environment and ECO-SUSTAINABLE buildings has also led the company to provide products with an extremely low level of VOC for installing ceramic tiles and natural stone which are also GEV certified, and which carry the EMICODE EC1 seal of approval, which may be found in the catalogue as follows:



**Maximum emission levels of EMICODE EC1 products:**

Residual emission after 10 days: • organic adhesives: < 0.5 mg/m<sup>3</sup> • primer: < 0.1 mg/m<sup>3</sup> • powder products: screeds/smoothing and levelling compounds, cementitious adhesives: < 0.2 mg/m<sup>3</sup>.

With the aim of guaranteeing a high standard of quality in the areas where they are applied, **BioBlock**<sup>®</sup> technology has been developed, which impedes the formation of mould on products applied in damp environments. Products which feature this technology are easily recognised by the **BioBlock**<sup>®</sup> logo



**Low Dust** technology has also been developed to safeguard the health of those who handle and apply such products, the amount of dust produced during the mixing phase with water is drastically reduced. Products which feature this technology are easily recognised by the **Low Dust** logo



The **Green Innovation** symbol identifies products with certain characteristics which contribute to achieving eco-sustainable buildings:

- products with an extremely low emission level of volatile organic compounds,
- products with an extremely low emission level of dust during the mixing and storage phases,
- products which avoid the formation of mould when applied in damp environments,
- products which help to improve environmental wellbeing, for example by improving

sound-proofing against the noise created by foot-traffic,

- products based on the use of raw materials from recycled materials, to reduce impact on the environment deriving from the extraction of virgin materials,

- lightweight products.



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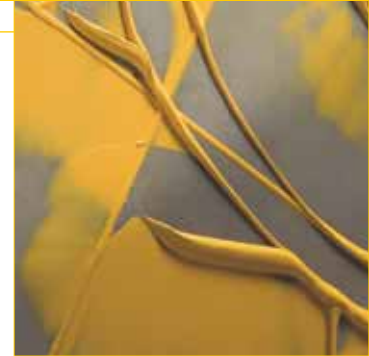
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# The CE mark and the European classification of ceramics and stone material according to Europe

4 |

## Also thanks to the CE mark, Mapei makes easier transportation of their Adhesives for Ceramic tiles all over Europe

Since 2000, a classification is in force for adhesives and grouting mortars for tiles, according to a unique, harmonious model at a European level, and which is indicated in Standards **EN 12004** and **EN 13888**.

This system allows users of the products to carry out a simple classification according to their area of use and their characteristics.

In fact, classification of the products has become performance orientated, with supplementary characteristics regarding their application, highlighted by a symbol which guarantees that they are conform, on the packaging and on all the documentation.

MAPEI, consistent in its approach (based on innovation, transparency and clarity for which they are renowned), has adopted the new Standard immediately and since 2000, MAPEI has been identifying all its products with the symbols which certify that they conform.

### CE mark - Adhesives for Ceramic tiles

According to the "European Directive 89/106 for products employed in construction", in order to favour free trade in the member states of the European Community, it is obligatory to apply the **CE** mark on all packaging of adhesives for ceramic tiles (cementitious, in dispersion and active resin-based). The **CE** mark on the packaging is a guarantee for the user that the manufacturer has respected the following directives:

- the adhesive possesses the characteristics established in Annex ZA, Standard **EN 12004**, and required by "Mandate M127 - Construction Adhesives";
  - the adhesive has been awarded one or more test certificates by an independent laboratory designated by each single European State, and authorised by the European Community:
    - Technische Universität München (TUM)
    - Säurefließner-Vereinigung e.V. Grossburgwedel (SFV)
    - Centre Scientifique et Technique du Bâtiment, Champs sur Marne (CSTB)
- The product outline of each ceramic adhesive also contains the certificate reference number and the name of the body which issued it;
- the manufacturer has issued a signed Declaration of Compliance (EC Declaration), with which they assume all responsibility regarding declaration of the **CE** mark;
  - with reference to Directive **EN 89/106**, the manufacturer is obliged to adhere to the following:
    - to apply a quality control system on the goods produced in the factory;
    - to carry out rigorous controls at the start of each new production batch and for variations in the raw materials and production processes;
    - to keep testing equipment under strict control;
    - to register and store results of testing carried out for a period of at least 5 years, and supply the results upon request;
    - to identify and separate the products (raw materials and finished goods) that, when subject to control, do not conform to standards;
    - to provide suitable training to all personnel employed in the production and quality control cycles;
    - to assume complete responsibility for the characteristics declared, to indicate the product's area of use and to supply instructions for its correct use.

To sum up, therefore, the **CE** mark represents a certified guarantee to the user that the product which has been purchased possesses the minimum characteristics required by current standards, and that the above mentioned characteristics are not subject to variation between the different production batches.





# f adhesives and grouting mortars for European Standards: EN 12004 - EN 13888



**Tab. 1: CLASSIFICATION OF ADHESIVES FOR CERAMIC AND NATURAL STONE TILES IN COMPLIANCE WITH EN 12004 STANDARDS**

EN 12004

### CEMENTITIOUS ADHESIVES

MAPEI PRODUCTS	TYPE and CLASS	DESCRIPTION
TIXOBOND WHITE	C1TE	Normal slip-resistant cementitious adhesive with extended open time
KERABOND, KERAFLOOR, KERASET	C1	Normal cementitious adhesive
KERABOND T	C1T	Normal slip-resistant cementitious adhesive
KERABOND T + ISOLASTIC, KERAFLOOR + ISOLASTIC	C2 S2	Improved cementitious adhesive, highly deformable
KERABOND + ISOLASTIC	C2E S2	Improved cementitious adhesive, with extended open time, highly deformable
PLANOBOND, KERAFLEX EASY	C2E	Improved cementitious adhesive with extended open time
ADESILEX P4	C2F	Improved fast-setting cementitious adhesive
GRANIRAPID	C2F S1	Improved fast-setting cementitious adhesive, deformable
KERACRETE POWDER + KERACRETE	C2T	Improved slip-resistant cementitious adhesive
ADESILEX P9, ADESILEX P10, KERAFLEX	C2TE	Improved slip-resistant cementitious adhesive with extended open time
KERAFLEX MAXI S1, ADESILEX P10 + ISOLASTIC (diluted 1:1 with water), ULTRALITE S1	C2TE S1	Improved cementitious adhesive, slip-resistant with extended open time, deformable
ULTRAFLEX S2 MONO	C2TE S2	Improved cementitious adhesive with extended open time, highly deformable
KERAQUICK	C2FT S1	Slip-resistant improved fast-setting cementitious adhesive, deformable
ELASTORAPID	C2FTE S2	Improved cementitious adhesive, fast setting and slip-resistant, with extended open time, highly deformable
ULTRAFLEX S2 QUICK, KERAQUICK + LATEX PLUS	C2FT S2	Slip-resistant improved fast-setting cementitious adhesive, highly deformable

### DISPERSION ADHESIVES

MAPEI PRODUCTS	TYPE and CLASS	DESCRIPTION
ADESILEX P22, ADESILEX P25, ULTRAMASTIC III, ULTRAMASTIC 5	D1TE	Slip-resistant normal dispersion adhesive with extended open time
FIX & GROUT BRICK, ULTRAMASTIC 2	D2T	Slip-resistant improved dispersion adhesive
ULTRAMASTIC III, ULTRAMASTIC 5	D2TE	Slip-resistant improved dispersion adhesive with extended open time

### REACTION RESIN ADHESIVES

MAPEI PRODUCTS	TYPE and CLASS	DESCRIPTION
KERALASTIC, KERAPOXY DESIGN, KERAPOXY ADHESIVE	R2	Improved reaction resin adhesive
KERAPOXY, KERALASTIC T	R2T	Improved reaction resin adhesive, slip-resistant



**Tab. 2: CLASSIFICATION OF GROUTS IN COMPLIANCE WITH EN 13888 STANDARD**

EN 13888

MAPEI PRODUCTS	TYPE and CLASS	DESCRIPTION
MAXIFUGA, ULTRACOLOR PLUS, KERACOLOR PPN, KERACOLOR SF, KERACOLOR FF, KERACOLOR GG, KERACOLOR FF/KERACOLOR GG + FUGOLASTIC	CG2	Improved cementitious grout (high resistance to abrasion-Ar and reduced water absorption-W)
KERAPOXY, KERAPOXY P, KERAPOXY SP, KERAPOXY IEG, KERAPOXY DESIGN, KERAPOXY CQ	RG	Reaction resin grout



### LEGEND

#### ADHESIVES

Type	Symbol	Class
cementitious	C	
dispersion	D	
reaction resin	R	
	1	normal
	2	improved
	F	fast-setting
	T	slip-resistant
	E	extended open time
cementitious	S1	deformable
	S2	highly deformable

#### GROUTS

Type	Symbol	Class
cementitious	CG	
	1	normal
	2	improved (high resistance to abrasion and reduced water absorption)
reaction resin	RG	



# Soundproofing systems for flooring

New

## Mapesilent Panel



**Soundproofing system for floating screeds.** Each Mapesilent Panel is composed of a bitumen and special polymer-based elasto-plastomeric membrane with a polyester reinforcement layer, sandwiched together with a resilient layer of polyester fibre.

### Where to use:

Mapesilent Panel is used to form an efficient soundproofing system on all types of floor slab according to DPCM 5.12.97. Mapesilent Panel is applied between the structure and the floating screed prior to laying all types of flooring materials.

### Technical data:

#### Tensile strength:

– longitudinal: 700 N/50 mm;  
– transvers: 500 N/50 mm.

**Resistance to impact:** 900 mm.

**Resistance to static perforation:** 15 kg.

**Impermeability to water:** > 100 kPa.

**Fire resistance:** F.

**Apparent dynamic rigidity (S't):** 10 MN/m<sup>3</sup>.

**Dynamic rigidity for calculation purposes (S')**: 21 MN/m<sup>3</sup>.

**Sound reduction caused by footstep (ΔL'<sub>nw</sub>):** 28 dB. (\*)

**Thermal resistance (R):** 0.313 m<sup>2</sup>K/W.

**Nominal thickness:** 13 mm.

**Format:** 1000 x 1000 mm tiles.

**Weight:** 5 kg/m<sup>2</sup>.

### Packaging

pallets containing 75 m<sup>2</sup>.

(\*) calculated on a masonry-cement floor (300 kg/m<sup>2</sup>).

New

## Mapesilent Roll



**Soundproofing system for floating screeds** consisting of a bitumen and special polymer-based elasto-plastomeric membrane with a polyester reinforcement layer, sandwiched together with a resilient layer of polyester fibre and a surface dressed with a layer of blue non-woven polypropylene fabric.

### Technical data:

#### Tensile strength:

– longitudinal: 700 N/50 mm;  
– transvers: 500 N/50 mm.

**Impact resistance:** 900 mm.

**Resistance to static perforation:** 15 kg.

**Impermeability to water:** > 100 kPa.

**Fire resistance:** F.

**Dynamic rigidity for calculation purposes (S')**: 47 MN/m<sup>3</sup>.

**Sound reduction caused by footstep (ΔL'<sub>nw</sub>):** 22.8 dB. (\*)

**Thermal resistance (R):** 0.145 m<sup>2</sup>K/W.

**Nominal thickness:** 8 mm.

**Format:** 1x10 m rolls.

**Weight:** 1.8 kg/m<sup>2</sup>.

### Packaging

1x10 m rolls.

(\*) calculated on a masonry-cement floor (300 kg/m<sup>2</sup>).

New

## Mapesilent Band



**L-shaped adhesive, closed-cell, expanded polyethylene membrane applied to perimeter walls around the edges of interruptions which pass through screeds to prevent the formation of acoustic bridges.**

### Where to use:

Mapesilent Band is applied to all the walls around the perimeter of the screed, to form a soundproofing system with Mapesilent Roll or Mapesilent Panel, and around all the edges of interruptions which pass through the screed to avoid the formation of acoustic bridges.

This product is available in two widths, 100 and 160 mm, called Mapesilent Band 50/100 and Mapesilent Band 50/160 respectively. The 160 mm version is required for heated floors where insulating panels are used, which incorporate the heating elements of the system.

### Technical data:

**Thickness:** 6 mm.

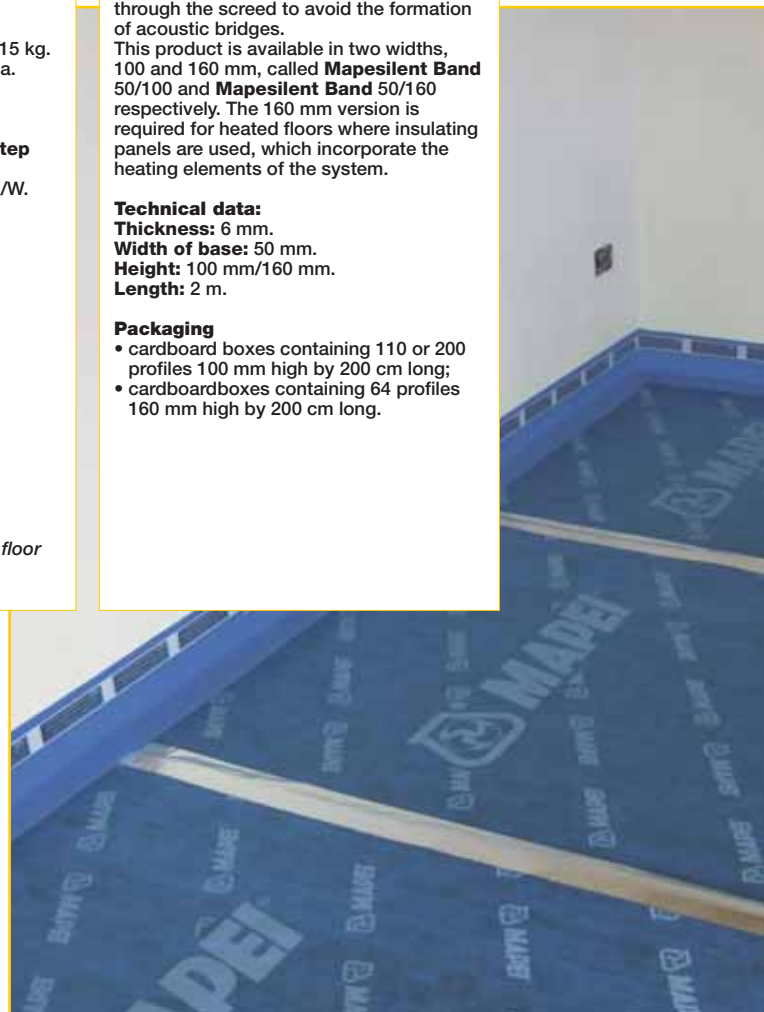
**Width of base:** 50 mm.

**Height:** 100 mm/160 mm.

**Length:** 2 m.

### Packaging

- cardboard boxes containing 110 or 200 profiles 100 mm high by 200 cm long;
- cardboard boxes containing 64 profiles 160 mm high by 200 cm long.







**Mapesilent Door**



**U-shaped adhesive, closed-cell, expanded polyethylene membrane applied in correspondence with openings in perimeter walls to avoid the formation of acoustic bridges.**

**Where to use:**  
**Mapesilent Door** is applied to all the openings in perimeter walls around the screed, to form a soundproofing system with **Mapesilent Roll** or **Mapesilent Panel**.

**Technical data:**  
**Thickness:** 6 mm.  
**Width of base:** 50 mm.  
**Pitch:** 105-110 mm.  
**Height:** 100 mm.  
**Length:** 2 m.

**Packaging**  
 cardboard boxes containing 30 50x100 mm pieces.



**Mapesilent Tape**



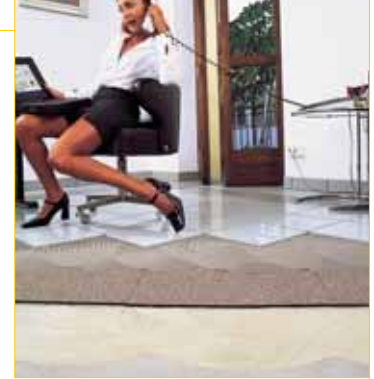
**Adhesive butyl rubber sealant tape with a silver-coloured surface.**

**Where to use:**  
**Mapesilent Tape** is used for sealing the overlapping of different pieces of **Mapesilent Band**, covering and joining the overlapping between **Mapesilent Band** and **Mapesilent Roll** and sealing the joints between **Mapesilent Panel** tiles and **Mapesilent Roll** sheets.

**Technical data:**  
**Thickness:** 0.6 mm.  
**Width:** 75 mm.  
**Length:** 10 metres.

**Packaging**  
 10 m rolls.

**Mapefonic System**



**Minimal thickness sound control system designed to isolate impact noise when installed under ceramic tiles and stone materials.**

**Applications:**  
 Acoustic insulation over:  
 • concrete and wooden substrates;  
 • existing ceramic tile, natural stone, parquet etc. floors.

**Technical data:**  
**Performance according to:**  
 – ISO 140-6: 1978;  
 – ISO 140-8: 1977;  
 – ISO 717-2: 1977.  
 • Noise reduction  $\Delta L_w = 17.6$  dB.  
 • Noise level index at standardised impact  $L_{nw} = 59.4$  dB.

**Certified by:**  
 – Galileo Ferraris Institute Certificate n. 31697-01;  
 – C.S.T.B. Avis Technique n. 13/97-709.  
**Storage:** 12 months.

**Packaging**  
**Mapefonic System** is made up of the following five products:  
 • **Mapefonic Strip** - Self-adhesive tape to be placed around the sides of the floor and around columns to prevent sound transmission. 1 box containing 4 rolls of tape, each 11 m long.  
 • **Mapefonic Pad** - Bitumen filled acoustic tiles (500x500x11.5 mm) with fibreglass reinforcing and a backing consisting of a composite cushion. When installed over the substrate, the **Mapefonic Pads** form a sound deadening underlayment. 12 boxes containing 2 m<sup>2</sup> each.  
 • **Mapefonic Glue** - Acrylic adhesive in water dispersion for installing **Mapefonic Pad**. 4 buckets of 5 kg. N.B. Protect from frost.  
 • **Mapefonic Mortar** - Grey fast-setting deformable cementitious adhesive for the installation of ceramic tiles and moisture stable stone material. 4 bags of 25 kg.



**Mapefonic Mortar is CE marked, as declared in ITT certificate n° 25070276/Gi (TUM), n° 25080059/Gi (TUM) and n° 25080063/Gi (TUM) issued by the Technische Universität München laboratory (Germany)**



• **Mapefonic Grout** - Fast setting and drying, high performance, anti-efflorescence grout, polymer modified, for joints from 2 to 20 mm. Water-repellent with **DropEffect®** and antimold with **BioBlock®** technology. 12 boxes of 1 kg.



# Screeds

## TOPCEM PRONTO, MAPECEM PRONTO AND ALL THE PRODUCTS FOR LEVELLING SUBSTRATES ARE GE MARKED AND CLASSIFIED ACCORDING TO THE EUROPEAN CLASSIFICATION FOR PRE-BLENDED MORTARS FOR SCREEDS EN 13813

The new European Standard for pre-blended mortars for screeds (EN 13813), "Screed material and floor screeds - Screed material - Properties and requirements", has now become effective. This norm allows to classify the pre-blended mortars on the basis of the nature of the binders employed and on their physical and elasto-mechanical characteristics.

MAPEI, consistent in their approach (based on innovation, transparency and clarity for which they are renowned), has decided to adopt the new standard immediately and to identify their pre-blended mortars with a symbol on the packaging and on all relative technical documentation.

In particular, the standard symbols illustrated here below have been adopted for TOPCEM PRONTO and MAPECEM PRONTO pre-blended mortars and the levelling compounds of MAPEI range, to indicate the following:



- screeds made using **TOPCEM PRONTO**, in accordance with the indications contained in the Technical Data Sheet, are class CT (cementitious binder-based), C30 (compressive strength after 28 days equal to at least 30 N/mm<sup>2</sup>), F6 (flexural strength after 28 days equal to at least 6 N/mm<sup>2</sup>), A1n (reaction to fire class).



- screeds made using **MAPECEM PRONTO**, in accordance with the indications contained in the Technical Data Sheet, are class CT (cementitious binder-based), C60 (compressive strength after 28 days equal to at least 60 N/mm<sup>2</sup>), F10 (flexural strength after 28 days equal to at least 10 N/mm<sup>2</sup>), A1n (reaction to fire class).



- levelling compounds made using **ULTRAPLAN**, in accordance with the indications contained in the Technical Data Sheet, are class CT (cementitious binder-based), C30 (compressive strength after 28 days equal to at least 30 N/mm<sup>2</sup>), F7 (flexural strength after 28 days equal to at least 7 N/mm<sup>2</sup>), A2fl (reaction to fire class).

As with adhesives used for ceramic tiles, according to the European Directive 89/106 for products used in construction work, it is also obligatory to apply the CE mark on the packaging of pre-blended mortars for screeds in order to favour free trade within the member states of the European Community. The CE mark on the packaging is a guarantee for the user that the manufacturer has respected the following directives:

- the screed and the levelling compound, if made according to the indications contained in the Technical Data Sheet, possess the mechanical characteristics and belong to the reaction to fire class indicated by the CE mark;
- the manufacturer has issued a signed Declaration of Compliance (EC Declaration) certificate, with which they assume all responsibility regarding declaration of the CE mark;
- with reference to the "Directive 89/106", the manufacturer is obliged to carry out the same controls as indicated for the CE mark regarding adhesives for ceramic tiles.

## Mapefluid N200



**Superplasticiser for concrete.**

### Applications:

**Mapefluid N200** can be used for manufacturing no-slump concrete for screeds, by reducing the w/c ratio, therefore the drying time.

**Mapefluid N200** is a brown-coloured liquid admixture with a base of active polymers in water solution that disperse cement grains. Add **Mapefluid N200** directly to the mixture after all the other ingredients (cement, aggregates, water).

**Mapefluid N200** can also be diluted into the mixing water beforehand but its superplasticising action is less effective.

### Dosage

0.5 to 1.5 kg per 100 kg cement (0.4-1.3 l).

### Packaging

200 l, 25 and 10 kg drums - 1000 l tanks. Also available in bulk on request.



## Mapefluid PZ500



**Superplasticiser with pozzolanic effect for high quality and chemical resistant mortar and concrete.**

### Applications:

**Mapefluid PZ500** can be used for manufacturing no-slump concrete for screed by just reducing the w/c ratio therefore reducing the drying time. **Mapefluid PZ500** improves all properties of the concrete. It provides a better cohesion of the fresh concrete, higher mechanical strengths, better waterproofing and durability against liquid and gaseous aggressive agents.

**Mapefluid PZ500** must be added to the dry components of the mix (cement and aggregate) before the batching water. The **Mapefluid PZ500** mix is placed and worked like normal concrete.

### Dosage

20-60 kg per m<sup>3</sup> of the mix.

### Packaging

11 kg bags.

800 kg big bags are available on request.







SISTINE HALLS - Vatican City  
Products used: GRANIRAPID, ULTRACOLOR and MAPEFLEX PU21  
were used to install porcelain tiles over MAPECEM screeds

## Mapecem



**Special fast setting hydraulic binder for the preparation of rapid setting and drying (24 hours) screeds with controlled shrinkage.**

### Applications:

Formation of floating and bonded screeds on both existing and new slabs for the installation of ceramic tiles, stone material, wood or any other flooring where rapid drying and immediate relaying is required.

**Mapecem** must always be mixed with graded aggregates. Bonded screeds (less than 35 mm thickness) and patching first require the application of a **Mapecem** and **Planicrete** anchoring slurry.

For floating screeds (at least 35 mm thick) lay a polyethylene sheet beforehand and use aggregates being graded from 0 to 8 mm in diameter.

### Technical data:

**Recommended mixture ratio:** 350-450 kg of **Mapecem** with 1 m<sup>3</sup> aggregates (0 to 8 mm diameter) and with 80-160 kg of water depending on the aggregate moisture.

**Open time of the mixture:** 20-30 minutes.

**Set to light foot traffic:** after 2-3 hours.

**Waiting time before installation:** 3 hours for ceramic tiles and natural stone.

**Residual moisture after 24 hours:** less than 2%.

**Storage:** 12 months.

### Consumption

3.5-4.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

20 kg bags.



## Mapecem Pronto



**Pre-blended, ready-to-use, quick-setting and drying (24 hours), controlled-shrinkage mortar for screeds.**

### Applications:

For the formation of both floating and bonded screeds on either old or new floor slabs, for laying ceramic, stone material or any other type of floor covering which requires quick drying and immediate laying of the material.

**Mapecem Pronto** is ready-to-use and it only needs to be blended with water. **Mapecem Pronto** is the ideal solution where finding good quality inert material of the correct grade is difficult, or in the case of installations in areas, such as historical town centres, where transportation and preparation of the blend with traditional binders becomes problematic. It is suitable for both internal and external screeds. Installation of bonded screeds and repair operations (less than 35 mm thickness) require that bonding slurry made using **Mapecem Pronto** and **Planicrete** is applied beforehand, while floating screeds (thickness above 35 mm) must be laid over sheets of polythene.

It is suitable for both internal and external screeds. Installation of bonded screeds and repair operations (less than 35 mm thickness) require that bonding slurry made using **Mapecem Pronto** and **Planicrete** is applied beforehand, while floating screeds (thickness above 35 mm) must be laid over sheets of polythene.

### Technical data:

**Recommended mixture ratio:** one 25 kg bag of **Mapecem Pronto** with approx. 2.2 litres of water.

**Open time of the mixture:** 20-30 minutes.

**Set to light foot traffic:** after 2-3 hours.

**Waiting time before installation:** 3 hours for ceramic and natural stone.

**Residual moisture after 24 hours:** less than 2%.

**Storage:** 12 months.

### Consumption

approx. 20 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.





## Topcem



**Special fast setting hydraulic binder for the preparation of normal setting and fast drying (4 days) screeds with controlled shrinkage.**

**Applications:**

Formation of floating and bonded screeds on existing and new slabs for the installation of wood, ceramic tiles, natural stone or any other flooring where fast drying is required for short installation times. Suitable for interior and exterior use. **Topcem**, mixed with graded aggregates and water, hardens within 24 hours and is completely dry within 4 days. Bonded screeds and patching (less than 35 mm thicknesses) first require the application of a **Topcem** and **Planicrete** anchoring slurry. For floating screeds (thicknesses above 35 mm) lay a polyethylene sheet beforehand.

**Technical data:**

**Recommended mixture ratio:** 200-250 kg of **Topcem** with 1 m<sup>3</sup> aggregates (0 to 8 mm diameter) and with 120-140 kg of water for dry aggregates.

**Open time of the mixture:** 40-60 minutes.

**Set to light foot traffic:** after 12 hours.

**Waiting time before installation:** 24 hours for ceramic tiles and 2 days for natural stone.

**Residual moisture after 4 days:** less than 2%.

**Storage:** 12 months.

**Consumption**

2-2.5 kg/m<sup>2</sup> per cm of thickness.

**Packaging**

20 kg bags.



## Topcem Pronto



**Ready to use prepacked mortar for fast-drying (4 days) normal setting screeds with controlled shrinkage.**

**Applications:**

Formation of floating and bonded screeds on existing and new slabs for the installation of ceramic tiles, stone material, or any other flooring where fast drying is required for short installation times.

**Topcem Pronto** is ready to use and must be mixed just with water.

**Topcem Pronto** is the ideal solution where good quality graded aggregate is hard to find or for job sites such as those in city centres where the logistics involved in mixing conventional binders can be difficult. **Topcem Pronto** is suitable for screeds used in interiors and exteriors.

Bonded screeds and patching (less than 35 mm thicknesses) first require the application of a **Topcem Pronto** and **Planicrete** anchoring slurry.

For floating screeds (thicknesses above 35 mm) lay a polyethylene sheet beforehand.

**Technical data:**

**Recommended mixture ratio:** one 25 kg bag of **Topcem Pronto** with 1.7 l of water.

**Open time of the mixture:** 40-60 minutes.

**Set to light foot traffic:** after 12 hours.

**Waiting time before installation:** 24 hours for ceramic tiles and 2 days for natural stone.

**Residual moisture after 4 days:** less than 2%.

**EMICODE:** EC1 R - extremely low emission level.

**Storage:** 12 months.

**Consumption**

18-20 kg/m<sup>2</sup> per cm of thickness in relation to the degree of compaction.

**Packaging**

25 kg bags.







## Eporip



**Two-component solvent free epoxy adhesive, for monolithic sealing of cracks in screeds.**

**Applications:**

Creation of monolithic adhesion between new and existing concrete.  
Bonding precast concrete sections or steel to concrete when rigid joints are required between interfacing structural elements. Rigid filling of cracks in screeds, concrete floors, etc.  
when it is used to obtain a monolithic structure. Apply **Eporip** with a brush or a trowel on clean and dry surfaces. Shrinkage cracks should be sealed by pouring **Eporip** into the cracks only after all the hydraulic shrinkage which caused the cracks has finished.

**Technical data:**

**Pot life:** 60 minutes.  
**Open time:** 5 hours.  
**Setting time:** 24 hours.  
**Final cure time:** 15 days.  
**Application:** by brush, trowel, pouring.  
**Storage:** 24 months.

**Consumption**

0.5-2 kg/m<sup>2</sup> (1.35 kg per litre of cavity to be filled).

**Packaging**

10 and 2 kg kits.



## Eporip Turbo



**Very fast hardening two-component polyester resin.**

**Applications:**

- Sealing cracks in screeds.
- By adding dry sand, **Eporip Turbo** can be used to manufacture mortars for small reparations.

**Eporip Turbo** hardens in approximately 20 minutes.

**Technical data:**

**Consistency:** part A: fluid paste; part B: fluid paste.  
**Colour:** part A: grey; part B: white.  
**Mixing ratio:** part A : part B = 500 : 8.  
**Flammability:** yes.  
**Application temperature range:** from +5°C to +30°C.  
**Setting time:** 20-30 minutes.  
**Workability:** 7 minutes.  
**Storage:** 12 months.  
**Application:** by trowel or by pouring.

**Consumption**

1.7 kg per litre of cavity to be filled.

**Packaging**

508 kg metal cans  
(Part A: 500 g; Part B: 8 g).



# Levelling compounds

## Ultraplan Eco



**Ultra-fast hardening self-levelling smoothing compound with very low VOC content.**

**Applications:**

Interior levelling of new and existing substrates, as long as not subject to moisture, to make them suitable for receiving all types of flooring where high resistance to loads and traffic is required. Levelling existing floors provided they are solid, dry and clean.

**Ultraplan Eco** is applied up to 10 mm thick per layer by trowel or pump. For the installation of wooden floors the minimum thickness must be 3 mm.

**Technical data:**

**Pot life:** 20-30 minutes.

**Application thickness:** from 1 to 10 mm.

**Set to light foot traffic:** approximately 3 hours.

**Waiting time before installation:** 12 hours.

**Colour:** pinkish grey.

**Application:** trowel, squeegee, or pump.

**EMICODE:** EC1 - extremely low emission level.

**Storage:** 12 months.

**Consumption**

1.6 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

23 kg bags.



## Ultraplan



**Ultra-fast hardening self-levelling smoothing compound.**

**Applications:**

Interior levelling of new and existing substrates to make them suitable for receiving all types of flooring where a high resistance to loads and traffic is required. Levelling existing floors provided they are solid, dry and clean. **Ultraplan** is applied up to 10 mm thick per layer by trowel or pump. For the installation of wooden floors the minimum thickness must be 3 mm.

**Technical data:**

**Pot life:** 20-30 minutes.

**Application thickness:** from 1 to 10 mm.

**Set to light foot traffic:** approximately 3 hours.

**Waiting time before installation:** 12 hours.

**Colour:** pinkish grey.

**Application:** trowel, squeegee, or pump.

**EMICODE:** EC1 - extremely low emission level.

**Storage:** 12 months.

**Consumption**

1.6 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

23 kg bags.







## Ultraplan Maxi



**Ultra-fast hardening self-levelling smoothing compound for thicknesses from 3 to 30 mm.**

**Applications:**

Interior levelling of new and existing substrates to make them suitable for receiving all types of flooring where high mechanical strength is required. Levelling existing floors provided they are solid, dry and clean. **Ultraplan Maxi** is applied from 3 to 30 mm thick per layer by trowel or pump.

**Technical data:**

**Pot life:** 30-40 minutes.  
**Application thickness:** from 3 to 30 mm.  
**Set to light foot traffic:** approximately 3 hours.  
**Waiting time before installation:** from 2 days to 2-3 weeks depending on the thickness.  
**Colour:** grey.  
**Application:** trowel, squeegee, or pump.  
**EMICODE:** EC1 - extremely low emission level.  
**Storage:** 12 months.

**Consumption**

1.7 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

25 kg bags.



## Plano 3



**Rapid hardening self-levelling smoothing compound, especially suitable for pump applications.**

**Applications:**

Interior levelling of new and existing substrates to make them suitable for receiving all types of flooring where a good resistance to loads and traffic is required. Levelling existing floors provided they are solid, dry and clean. Especially suitable for the preparation of substrates that will receive raising floors. **Plano 3** is applied from 3 to 10 mm thick with a trowel or pump.

**Technical data:**

**Pot life:** approximately 20 minutes.  
**Application thickness:** from 3 to 10 mm.  
**Set to light foot traffic:** 4-6 hours.  
**Waiting time before installation:** 24-48 hours.  
**Colour:** pinkish grey.  
**Application:** trowel, squeegee, or pump.  
**Storage:** 12 months.

**Consumption**

1.6 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

25 kg bags.



POSTGIROBYGGET - Oslo - Norvegia  
 Prodotti usati: appretti ed autolivellanti Rescon MAPEI

## Fiberplan



**Fibre-reinforced ultra-fast hardening self-levelling smoothing compound.**

**Applications:**

Interior levelling thicknesses from 3 to 10 mm of existing and new wooden floors, wooden boarding, chip-board panels, ply-wood, parquet. Smoothing cementitious, terrazzo, old ceramic tile and natural stone substrates. **Fiberplan** is suitable for wheeled chair traffic and heated flooring.

**Technical data:**

**Pot life:** 20-30 minutes.

**Application thickness:** from 3 to 10 mm.

**Set to light foot traffic:** 3 hours.

**Waiting time before installation:** 12 hours.

**Colour:** pinkish grey.

**Application:** trowel or squeegee.

**Storage:** 12 months.

**Consumption**

1.5 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

25 kg bags.



## Nivorapid



**Ultra-fast drying thixotropic cementitious levelling mortar, also suitable for vertical applications.**

**Applications:**

Interior levelling of all types of substrates normally found in the building industry provided they are clean and not subject to moisture, such as concrete slabs and walls, masonry, renders and cementitious screeds, etc. Also suitable for existing floors and walls, natural stone and terrazzo floors. Suitable for repairing or levelling steps, edges of pillars, landings and arrises of floors, walls and soffits. Especially recommended where the substrate must be put back into use within a short time. By mixing **Nivorapid** with **Latex Plus** in substitution to water, a highly deformable smoothing compound is obtained with excellent bonding strength also on surfaces in metal, old rubber floors, PVC, chipboard wood, parquet, linoleum, etc.

**Technical data:**

**Pot life:** 15 minutes.

**Application thickness:** from 1 to 20 mm.

**Set to light foot traffic:** approximately 2 hours.

**Waiting time before installation:**

4-6 hours.

**Colour:** grey.

**Application:** metal trowel.

**EMICODE:** EC1 R - extremely low emission level.

**Storage:** 12 months.

**Consumption**

1.6 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

25 kg bags and 4x5 kg packages.







## Nivoplan



**Levelling mortar for interior and exterior walls and ceilings.**

**Applications:**

Interior and exterior levelling "out-of-plumb" walls, rough or damaged renders, brick walls before laying ceramic tiles. Suitable for applying in thin coats on all conventional surfaces (concrete, cement-lime mortar, cementitious mortar, etc.). To improve bonding or consistency of thin coats, add 1 or 2 kg of **Planicrete** per bag. As an alternative, it is possible to use **Eco Prim Grip** to promote bonding on concrete.

**Technical data:**

**Applications:** on walls only.

**Pot life:** 2-3 hours.

**Application thickness:** from 2 to 30 mm.

**Waiting time before installation:**  $\geq$  4 hours depending on thickness.

**Colours:** grey and white.

**Application:** trowel.

**Storage:** 12 months.

**Consumption**

1.4 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

25 kg bags.



## Planicrete



**Synthetic-rubber latex for cementitious mixes.**

**Applications:**

Admixture to improve mechanical and adhesive strength of cementitious mixes for screeds, renders, small-thickness renders, etc. Additive for cement based adhesive slurries for anchoring bonded screeds, filling holes or repairing damaged sections of screeds, cementitious floors, etc. Additive for spatterdash to provide anchoring for renders. Do not use pure **Planicrete** as a primer or slurry, always mix it with Portland cement, or when required, with **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**.

**Technical data:**

**Storage:** 24 months. Protect from frost.

**Consumption**

depends on dilution and thickness of mortar.

**Packaging**

25 - 10 - 5 kg drums and 12x1 kg packs.



# Waterproofers

## Mapelastic



**Two-component flexible cementitious mortar for waterproofing concrete, balconies, terraces, bathrooms and swimming pools.**

### Applications:

Use **Mapelastic** to waterproof bathrooms, showers, balconies, terraces and swimming pools before the installation of ceramic tiles and provide a highly flexible, protective and waterproof coating to concrete structures particularly subject to cracking.

**Mapelastic** seals hairline cracks already present in substrates.

**Mapelastic** is supplied in two pre-measured components which must be mixed together without adding water or other ingredients. The mortar is applied with a trowel onto perfectly clean and sound surfaces that have been previously dampened with water.

**Mapelastic** has excellent bonding properties when applied on concrete surfaces, cementitious screeds and render and stone (which must be clean and well attached to the substrate).

**Mapelastic** can be applied up to 2 mm thick in a single coat. When applying to surfaces particularly stressed or crazed, it is essential to embed a 4 x 4.5 mm square-grid **Mapenet 150**.

To further improve both elongation at failure and crack bridging of **Mapelastic**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Mapelastic** meets the requirements of **EN 1504-2** standards, in compliance with **PI, MC and IR** principle, for concrete protection.

**Mapelastic** also complies to EN 14891 standards.

### Technical data:

**Pot life:** 60 minutes.

**Waiting time:** 4-5 hours between layers; 5 days before installing the ceramic tiles.

**Colour:** grey.

**Application:** flat trowel.

**Storage:** Part A: 12 months.

Part B: 24 months. Protect from frost.

### Consumption

1.7 kg/m<sup>2</sup> per mm of thickness.

### Packaging

32 kg kits (part A 24 kg + part B 8 kg).



## Mapelastic Smart



**Two component, high flexibility cementitious mortar, for waterproofing concrete surfaces, balconies, terraces, basins and swimming pools. Can be applied by brush or with a roller.**

### Applications:

**Mapelastic Smart** is used to form highly flexible, waterproof and protective dressings on concrete structures, even those subject to cracking. **Mapelastic Smart** may also be used to cover up micro-cracking in concrete or render. **Mapelastic Smart** is supplied in the form of two pre-dosed components, which must be mixed together without adding either water or any other ingredient.

Mixing ratio: A : B = 2 : 1.

The mortar is applied by brush, roller or spray-rendering machine on surfaces which must be perfectly clean and solid, and which have been dampened with water beforehand.

**Mapelastic Smart** has excellent bonding properties when applied on concrete surfaces, cementitious screeds and render and stone (which must be clean and well attached to the substrate). With **Mapelastic Smart**, a levelling layer of up to 2 mm thick may be applied in one single coat.

If the product is to be applied on surfaces which are highly stressed or which have micro-cracking, 4 x 4.5 mm **Mapenet 150** must be inserted. To further improve both elongation at failure and crack bridging of **Mapelastic Smart**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Mapelastic Smart** meets the requirements of **EN 1504-2** standards, in compliance with **PI, MC and IR** principle, for concrete protection.

**Mapelastic Smart** also complies to EN 14891 standards.

### Technical data:

**Pot life:** 60 minutes.

**Waiting time:** 4-5 hours between each coat; 5 days before laying ceramic tiles.

**Colour:** grey.

**Application:** by brush, roller or spray-rendering machine.

**Storage:** part A: 12 months; part B: 24 months. Protect from frost.

### Consumption

- approx. 1.6 kg/m<sup>2</sup> per mm of thickness when roller or brush applied;

- approx. 2.2 kg/m<sup>2</sup> per mm of thickness when spray applied.

### Packaging

30 kg kits (part A 20 kg + part B 10 kg).







THE WATERPROOFER

**Mapelastastic®**

Flexible  
cementitious  
membrane

### Monolastic



**One component, flexible cementitious mortar for waterproofing balconies, terraces and bathrooms.**

**Applications:**

**Monolastic** is used for waterproofing balconies, terraces, bathrooms and showers before installing ceramic tiles or mosaics.

**Monolastic** is a one component, cementitious waterproofing mortar with cementitious binders, selected, fine-grained aggregates and special, flexible acrylic polymers.

Once mixed with water, **Monolastic** forms a paste with excellent workability characteristics, and which is easy to apply with a trowel, roller or brush.

**Monolastic** also bonds extremely well to all surfaces in concrete, masonry, ceramic and marble, if they are solid and clean.

**Monolastic** may be used to form a smoothing layer up to 2 mm thick in a single application. If applied on surfaces subject to high and/or widespread stresses, 4 x 4.5 cm patches of **Mapenet 150** glass fibre must be embedded in the layer.

To improve the elongation and crack-bridging properties of **Monolastic**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Monolastic** complies to EN 14891 standards.

**Technical data:**

**Pot life:** 60 minutes.

**Waiting time:** 2 hours between each coat; 2 days before laying ceramic tiles.

**Colour:** light grey.

**Application:** brush, roller or trowel.

**Storage:** 12 months.

**Consumption**

1.1 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

20 kg paper bags.



### Monolastic Ultra



**One component, highly-flexible cementitious mortar for waterproofing concrete, balconies, terraces, bathrooms and swimming pools.**

**Applications:**

**Monolastic Ultra** is used for waterproofing balconies, terraces, swimming pools, bathrooms and showers before fixing ceramic materials.

**Monolastic Ultra** is a one component, cementitious waterproofing mortar with cementitious binders, selected, fine-grained aggregates and special acrylic polymers.

Once mixed with water, **Monolastic Ultra** forms a paste with excellent workability characteristics which is easy to apply with a trowel, roller or brush, and which may also be applied on vertical surfaces without slump and without waste.

**Monolastic Ultra** also bonds extremely well to all concrete, masonry, ceramic and marble surfaces, as long as they are solid and clean.

**Monolastic Ultra** may be used to form a smoothing layer up to 2 mm thick in a single application. If applied on surfaces subject to high and/or widespread stresses, 4 x 4.5 cm patches of **Mapenet 150** glass fibre must be embedded in the layer.

To improve the elongation and crack-bridging properties of **Monolastic Ultra**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Monolastic Ultra** complies to EN 14891 standards.

**Technical data:**

**Pot life:** 60 minutes.

**Waiting time:** 2 hours between each coat; 2 days before laying ceramic tiles.

**Colour:** light grey.

**Application:** brush, roller or trowel.

**Storage:** 12 months.

**Consumption**

approximately 1.1 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

20 kg paper bags.





## Mapenet 150



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

**Applications:**

For reinforcing waterproofing membranes carried out with **Mapelastic, Mapelastic Smart, Monolastic, Monolastic Ultra, Mapegum WPS, Aquaflex System.**

**Technical data:**

**Mesh size:** 4x4,5 mm.

**Weight:** 157 g/m<sup>2</sup>.

**Packaging**

50 m long and 1 m high rolls.

## Mapetex Sel



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

**Applications:**

**Mapetex Sel** is a non-woven, macro-holed fabric made from synthetic polypropylene fibres which is totally waterproof; it is used in conjunction with **Mapelastic, Mapelastic Smart, Monolastic or Monolastic Ultra**, flexible cementitious mortars, to apply waterproofing layers on balconies, terraces, swimming pools, basins, etc.

Thanks to the mechanical properties of the product, the characteristics of **Mapelastic, Mapelastic Smart, Monolastic or Monolastic Ultra**, such as toughness, punch-resistance, ultimate elongation and crack-bridging, are further improved.

**Packaging**

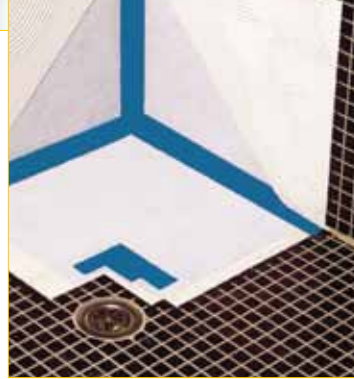
25 m x 1 m-wide rolls.







### Mapegum WPS



**Fast drying flexible liquid membrane for interior waterproofing.**

**Applications:**

Liquid waterproofing membrane for interior surfaces provided they are not continually immersed in water or subject to rising damp. **Mapegum WPS** can be used on all types of substrates such as: gypsum board walls, gypsum and cementitious renders, light-weight concrete blocks, wood, existing ceramic tiles, cementitious and anhydrite substrates, wood substrates, magnesite, hot poured asphalt. Waterproof for bathroom and shower walls and floors before installing ceramic tiles and natural stone; waterproofing kitchen floors and walls and counter tops before installing ceramic tiles.

**N.B.:** **Mapegum WPS** has been certified by the following institutes as a waterproofing membrane for damp environments, to be applied underneath tiled surfaces.

- Säurefliesner (Germany): tested in accordance with current standards.
- SP Swedish National Testing & Research Institute (Sweden): tested in accordance with BKR Standards (Building Ceramics Council).
- Norwegian Research & Building Institute: tested in accordance with current standards.

**Technical data:**

**Formation of surface skin:** 1 hour.

**Complete drying** (2 mm of thickness at +23°C): 5 hours.

**Waiting time:** 1-2 hours between each coat; 12-24 days before laying ceramic.

**Colour:** light grey.

**Application:** by trowel, with a roller or by spraying.

**Storage:** 24 months. Protect from frost.

**Consumption**

1.5 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

5, 10 and 25 kg drums.



### Mapegum EPX Mapegum EPX-T



**Two-component liquid epoxy membrane for deformable chemical-resistant waterproofing prior to installing ceramic tile coverings.**

**Applications:**

Acid-resistant waterproofing of floors prior to installing ceramic tiles in factories, industrial kitchens, slaughterhouses, etc. to protect the substrate from chemical aggression. For walls, use

**Mapegum EPX-T. Mapegum EPX** and **Mapegum EPX-T** should be applied in two coats with a brush, roller or trowel in a total thickness of not less than 1 mm. To install tiles over **Mapegum EPX** and **Mapegum EPX-T**, use **Kerapoxy**, or sand the second coat while still fresh and use **Granirapid**, **Elastorapid** or **Adesilex P4**.

**Technical data:**

**Pot life:** 30-40 minutes.

**Set to light foot traffic:** approx. 24 hours.

**Ready for use:** approx. 3 days.

**Colour:** grey.

**Application:** brush, roller and trowel.

**Storage:** 24 months.

**Consumption**

1.4 kg/m<sup>2</sup> per mm of thickness.

**Packaging**

10 kg kits (8.7 + 1.3).



## Mapeband



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

### Applications:

Flexible waterproofing of expansion joints of terraces, balconies, etc. and of wall joints and floor to wall joints to be treated with **Mapegum WPS**, **Mapelastic**, **Mapelastic Smart**, **Monolastic** or **Monolastic Ultra**. Waterproofing of expansion joints of precast panels, piping, bath, shower and kitchen drains using the special **Mapeband** gaskets.

**N.B.** The joints between the **Mapeband** pieces must be bonded with **Adesilex T Super** or **Adesilex LP**.

### Technical data:

**Length:** 50 m.

**Width:** 120 mm.

**ULTIMATE ELONGATION:** > 400%.

### Packaging

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



## Adesilex T Super



**Adhesive for joining Mapeband rubber strip.**

### Applications:

Bonding the joints between pieces of **Mapeband**. Spread the adhesive onto one of the parts to be joined, making sure that all the joint is covered; attach the two pieces of **Mapeband** immediately and carefully massage the joint.

### Technical data:

**Colour:** red, transparent.

**Application:** by trowel.

**Storage:** 12 months.

### Consumption

0.07 kg per metre in length of **Mapeband** joined together (width of the rubber part: 7 cm).

### Packaging

1 kg tins and boxes of 10 tubes of 90 g.



## Mapeband PE120



**PVC tape for waterproofing systems formed using liquid membrane.**

### Applications:

Flexible waterproofing seal of edges and expansion joints to be treated with **Mapegum WPS**.

**N.B.** Joints between pieces of **Mapeband PE 120** must also be bonded using **Mapegum WPS**.

### Packaging

– 50 m and 100 m rolls, total width 120 mm;  
– 90° and 270° corner pieces (boxes of 25 pieces);  
– seals for through holes of 120x120 mm (boxes of 25 pieces) and 425x425 mm (boxes of 10 pieces).

