



MAPEI SYSTEMS AND SOLUTIONS FOR 360 DEGREE WATERPROOFING



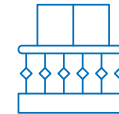


MAPEI PRODUCTS
FOR WATERPROOFING.

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MAPEI SYSTEMS AND SOLUTIONS

For 360 degree waterproofing



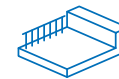
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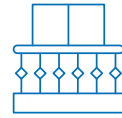
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Balconies and terraces

Since the immediate postwar period, the **concept of terrace and balcony** evolved. They have now turned into **new living spaces in homes**, where time can be spent. Balconies and terraces are a very important part of buildings, as they allow people to enjoy beautiful views and relax by being outside without necessarily having a garden. However, these areas are sometimes not taken care of as they should be.

In order for terraces and balconies to be useful spaces where one can live pleasant moments, it is necessary that they are **designed** with the utmost care, taking the following into account:

- intended use and thus loads and stresses for defining its construction layers;
- possible placement of an insulating layer;
- creation of new screed and slopes or levelling of the existing ones;
- drains, pass-through elements, fittings and joints;
- waterproofing of surfaces;
- application of the covering.

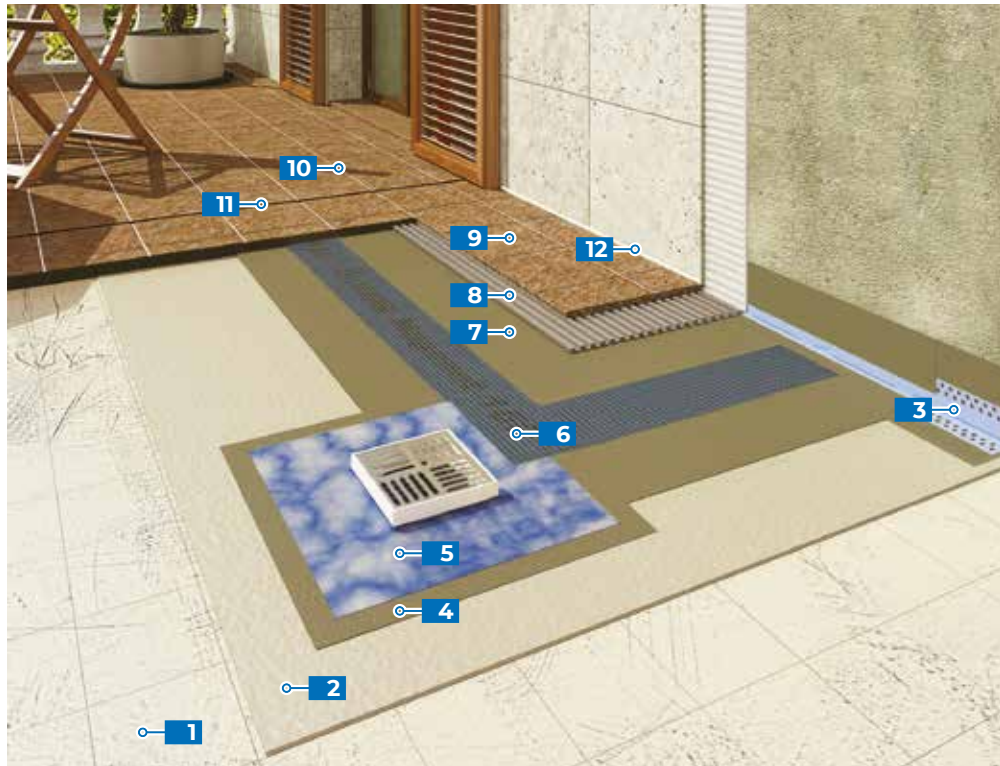
Incorrect waterproofing can lead to a variety of problems ranging from **infiltration** in internal environments, progressive **degradation** of the substrate screed and eventually **fracture** or partial **detachment** of **flooring elements**.

In both **renovation works** and **new construction** of balconies and terraces, **Mapei** offers waterproofing products characterised by **innovative technologies** and cutting-edge solutions that guarantee **complete, durable** systems with high-performance results.



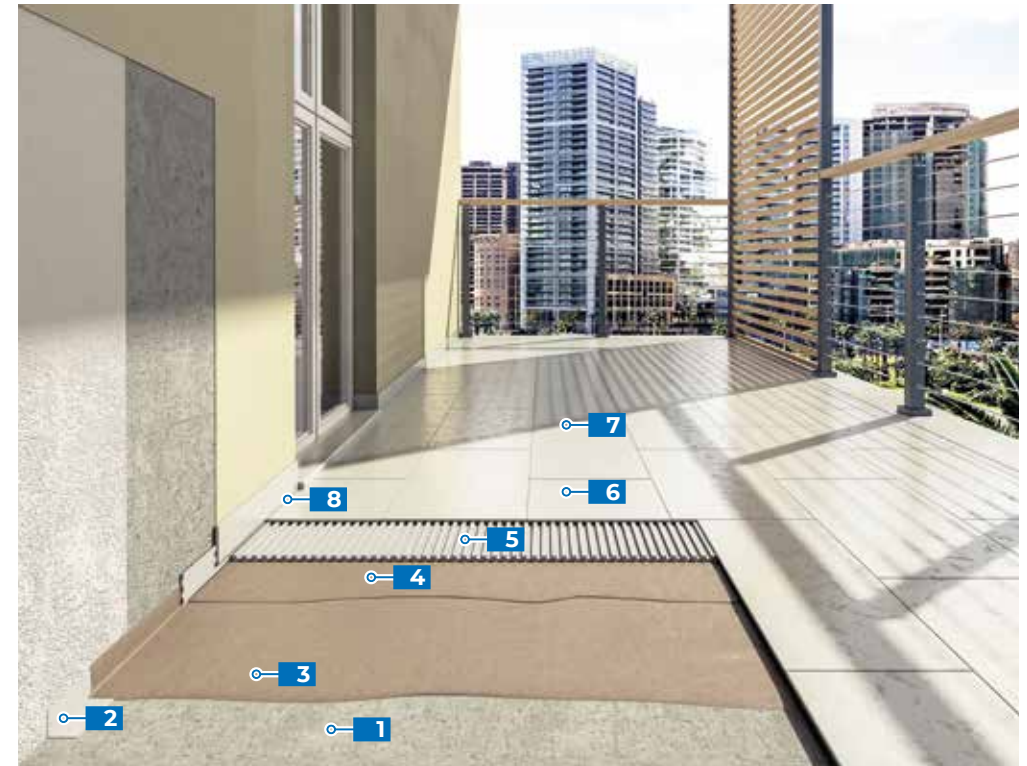
Waterproofing systems and solutions

System for waterproofing and laying ceramics on terraces and flat roofs as an overlay to existing flooring.

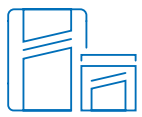


- 1** Existing Covering
- 2** Skimcoat **Planitop Fast 330**
- 3** **Mapeband Easy** rubber tape
- 4** Waterproofing product **Mapelastac ZERO** (1st coat)
- 5** Glass fibre drain **Drain Vertical**
- 6** **Mapenet 150** glass fibre mesh
- 7** Waterproofing product **Mapelastac ZERO** (2nd coat)
- 8** **Keraflex Maxi SI ZERO** adhesive
- 9** New covering
- 10** **Ultracolor Plus** grout
- 11** **Mapeflex PU 45 FT** sealant
- 12** **Mapesil AC ECO** sealant

System for waterproofing newly built balconies with one-component cementitious products and subsequent covering installation.



- 1** Cementitious substrate
- 2** Self-adhesive band **Mapeband SA**
- 3** Waterproofing product **Monolastic** (1st coat)
- 4** Waterproofing product **Monolastic** (2nd coat)
- 5** Adhesive **Keraflex Maxi SI ZERO**
- 6** Floor tiles
- 7** Grout **Ultracolor Plus**
- 8** **Mapefoam + Mapesil AC** sealant



Waterproofing membranes

Mapelastic ZERO

DESCRIPTION

Two-component cementitious mortar, flexible down to -20°C, for waterproofing balconies, terraces, bathrooms and swimming pools, with fully offset greenhouse gas emissions.

APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing. Mix **Mapelastic ZERO** thoroughly for a few minutes.

Apply the product by brush, roller or trowel, within 60 minutes of its mixing in at least two coats, waiting at least 4-5 hours between coats, for a final thickness of at least 2 mm. If required, embed **Mapenet 150** mesh on the entire surface between coats. After applying the second coat of **Mapelastic ZERO** wait at least 5 days before laying the covering. **Mapelastic ZERO can be applied on concrete, render, existing ceramic coverings and cementitious screeds.**

ADVANTAGES



WATERPROOFING



HIGHLY FLEXIBLE



DURABLE OVER TIME



SUITABLE FOR DIFFERENT SUBSTRATES



UV RESISTANT



COMPLETE SYSTEM

CERTIFICATIONS AND MARKINGS



CHECK THE TECHNICAL DATASHEET on mapei.com



PACKAGING

Mapelastic ZERO

- 32 kg unit:
 - component A 24 kg bags;
 - component B 8 kg drums.
- 16 kg unit:
 - component A 2 x 6 kg bags
 - component B one 4 kg drum.

Mapenet 150
Rolls 50 m long and 1 m wide.

CONSUMPTION

1.7 kg/m² (per mm of thickness).



Monolastic

DESCRIPTION

One-component waterproofing cementitious mortar with fully offset greenhouse gas emissions.

APPLICATION

Pour 5.4-5.8 litres of water into a clean container and slowly add **Monolastic** while mixing. Then mix thoroughly for 3 minutes. Apply the product by brush, roller or trowel within 60 minutes after mixing in at least two coats, waiting at least 6 hours between each coat. After applying the second coat of **Monolastic** wait at least 24 hours before laying the covering.

Monolastic can be applied on concrete, render, existing ceramic coverings and cementitious screeds.

ADVANTAGES



WATERPROOFING



EASY TO USE



EXCELLENT WORKABILITY



SUITABLE FOR DIFFERENT SUBSTRATES



PERFECT ADHESION



HIGHLY FLEXIBLE

CERTIFICATIONS AND MARKINGS



CHECK THE TECHNICAL DATASHEET on mapei.com



PACKAGING

20 kg bag.

CONSUMPTION

1.1 kg/m² (per mm of thickness).





Mapeband SA

DESCRIPTION

Self-adhesive butyl tape with alkali-resistant non-woven fabric for flexible waterproofing systems.

APPLICATION

Unroll **Mapeband SA** and cut it to the desired length. Lay **Mapeband SA** at the starting point of the joint to be waterproofed and partially remove one of the two flaps of the protective film. Apply pressure from the center of the tape towards the edges to promote tape adhesion and to avoid the formation of creases and air bubbles. Remove the remaining part of the protective film and complete the installation of **Mapeband SA**. Then press the whole surface with a rubber roller to achieve good initial adhesion.

ADVANTAGES



RESISTANT TO ALKALIS



EASY TO USE



SUITABLE FOR DIFFERENT SUBSTRATES



VERSATILITY AND ADAPTABILITY

CERTIFICATIONS AND MARKINGS



CHECK THE TECHNICAL DATASHEET on mapei.com



PACKAGING

- Box containing one roll 25 m long and 10 cm wide;
- Box containing 10 tiles 370 mm x 370 mm.



Mapeband Easy

DESCRIPTION

Rubber tape embedded between two layers of non-woven fabric to form elastic joints in waterproofing systems.

APPLICATION

Apply one layer of the chosen waterproofing product to the sides of the edges and/or expansion joints to be waterproofed with **Mapeband Easy**. Then apply the tape by making it well adhere to the applied waterproofing. Joints between pieces of **Mapeband Easy** must be made by overlapping edges for at least 5 cm and bonding using the chosen waterproofing product. Once applied to all joints and fittings, proceed with the installation of the chosen waterproofing system. Where contraction joints are present, apply the waterproofing on **Mapeband Easy** leaving the central strip exposed in order to make the joint visible and subsequently apply the covering accordingly.

ADVANTAGES



RESISTANT TO ALKALIS



EASY TO USE



HIGHLY FLEXIBLE



VERSATILITY AND ADAPTABILITY

CERTIFICATIONS AND MARKINGS



CHECK THE TECHNICAL DATASHEET on mapei.com



PACKAGING

- 130 mm x 30 m rolls;
- 130 mm x 10 m rolls.

Special pieces:

- 90° and 270° corners.
- 200x200 mm and 400x400 mm tiles for passing-through pipes.





System accessories

Drain Vertical, Drain Lateral, Drain Front

DESCRIPTION

Kit for making drains. Ideal for water disposal in terraces, balconies, bathrooms, boiler rooms, laundries, etc.

APPLICATION

Drain Front

After making a wall and floor groove in order to place the extension properly, apply on the dry and clean substrate an even layer of **Adesilex PG4** epoxy adhesive. Next, lay the extension on the fresh adhesive and cover with a second coat of adhesive, carefully broadcasting it with quartz while still fresh.

Drain Vertical and Lateral

Spread an even first coat of the chosen waterproofing around the drain, then lay the drain and cover its collar with an additional coat of waterproofing product. Then install the various elements of the kit while proceeding with the installation of the covering.

ADVANTAGES



HIGH COMPATIBILITY



EASY TO USE



COMPLETE SYSTEM

CHECK THE TECHNICAL DATASHEET on mapei.com



Drain Vertical,
Drain Lateral



Drain Front



AVAILABLE KITS

Drain Front

in copper and ivory colours.

Drain Vertical

For 50, 75, 82, 90 and 100 mm diameter drains.

Drain Lateral

for 50, 75, and 90 mm diameter drains.



Alternative products for the proposed solutions

Mapei offers several solutions for balconies and terraces that maintain the same **quality** guarantee and **durability**.

Especially for balconies and terraces, it offers two alternative products: **Mapelastico Turbo** and **Monolastico Turbo ZERO**. These two versions, one-component and two-component, can both be used in case of work during **cold weather**, on **damp substrates** (as long as fully cured) or in case work needs to be completed in short times.

Both products can be used with the same accessories as **Mapelastico ZERO** and **Monolastico**.





Alternative products for the proposed solutions

Mapelastic Turbo

DESCRIPTION

Two-component, quick-drying, flexible cementitious mortar for waterproofing terraces and balconies, including at low temperatures and on substrates not completely dry.

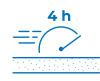
APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing. Mix **Mapelastic Turbo** thoroughly for 3 minutes. Apply the product by brush, roller or trowel, within 45 minutes of mixing in at least two coats, waiting at least 1 hour between each coat, for a minimum thickness of 2 mm, taking care when necessary to lay between coats **Mapenet 150** mesh or **Mapetex Sel N** fabric to cover the entire surface. After applying the second coat of **Mapelastic Turbo** wait at least 3 hours before laying the covering. **Mapelastic Turbo** can be applied on render, concrete, cementitious screeds and existing ceramic coverings. (Also suitable for damp substrates).

ADVANTAGES



WATERPROOFING



QUICK DRYING



HIGHLY FLEXIBLE



SUITABLE FOR DIFFERENT SUBSTRATES



UV RESISTANT

CERTIFICATIONS AND MARKINGS



CHECK THE
TECHNICAL
DATASHEET

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PACKAGING

Mapelastic Turbo

- 36 kg unit:
 - comp. A 20 kg bags;
 - comp. B 16 kg jerrycan.
- 18 kg unit:
 - comp. A 10 kg bags;
 - comp. B 8 kg jerrycan.

Mapenet 150

50 m rolls with 1 m width.

Mapetex Sel N

25 m rolls with 1 m width.

CONSUMPTION

1.2 kg/m²
(per mm of thickness).



Monolastic Turbo ZERO

DESCRIPTION

One-component, flexible cementitious mortar, rapid-drying even at low temperatures and on not perfectly dry substrates, for the waterproofing of terraces and balconies, with fully offset greenhouse gas emissions.

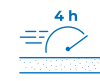
APPLICATION

Mix the entire bag of **Monolastic Turbo ZERO** with approx. 4 litres of water. Then mix thoroughly for 3 minutes. Apply the product by brush, roller or trowel within 45 minutes after mixing in at least two coats, waiting at least 1 hour between coats, for a final thickness of at least 2 mm. After applying the second coat of **Monolastic Turbo ZERO** wait at least 3 hours before applying the covering. **Monolastic Turbo ZERO** can be applied on concrete, masonry existing ceramic coverings, cementitious screeds and marble.

ADVANTAGES



WATERPROOFING



QUICK DRYING



SUITABLE FOR DIFFERENT SUBSTRATES



UV RESISTANT

CERTIFICATIONS AND MARKINGS



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DATASHEET

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PACKAGING

Monolastic Turbo ZERO
15 kg bag.

CONSUMPTION

1,1 Kg/m² per mm
of thickness.





Bathrooms and damp environments

Within any inhabited space, whatever its intended use, **the bathroom** must **meet not only aesthetic, but above all functional and hygienic criteria**, therefore, the materials used in its construction are of great importance.

The bathroom is that room in the house in which the **highest formation of water vapour** occurs; in addition, surfaces such as that of showers or bathtubs are **in contact with running water**, while all others can undergo **water splashes**.

Just think of the damage a **human error** such as a leaking washing machine or an overfilled bathtub can cause.

Over time, **despite the proficiency** with which the tiles are installed, cracks can occur, especially in grouts. Therefore, the **risk of infiltration** is very high, as its resulting damages: **deterioration** of render and in the most severe cases of masonry, **detachment** of tiles up to **formation of mould**.

In both **renovation** and **new creation** of spaces intended for **bathrooms** and **showers**, Mapei offers waterproofing products characterised by **innovative technologies and cutting-edge solutions**, which are **easy to use, quick** to apply and put into service, with a guarantee of **durability** and **quality**.



Systems and solutions for **waterproofing**

Quick system for bathroom restoration with ready-to-use waterproofing and installation of glass mosaic or ceramics.



- | | |
|---|---|
| 1 Old tiles | 7 Ready-to-use waterproofing Mapelastic AquaDefense ZERO (2 nd coat) |
| 2 Eco Prim T Plus primer | 8 Elastorapid adhesive |
| 3 Smoothing compound Planitop Fast 330 | 9 Glass mosaic |
| 4 Rubber tape Mapeband | 10 Grouting Kerapoxy Easy Design + MapeGlitter |
| 5 Ready-to-use waterproofing Mapelastic AquaDefense ZERO (1 st coat) | 11 Mapesil AC ECO sealant |
| 6 Drain Vertical floor drain | 12 Kerapoxy Design grouting |

System for waterproofing, with ready-to-use products, in damp environments of new construction with subsequent laying of the covering.



- | | |
|--|---|
| 1 Concrete substrate | 8 Mapesil AC ECO sealant |
| 2 Uncoupling membrane | 9 Rubber tape Mapeband PE 120 |
| 3 Screed Topcem Pronto | 10 Plasterboard |
| 4 Ready-to-use waterproofing Mapegum WPS | 11 Ultramastic III adhesive |
| 5 Keraflex adhesive | 12 Ceramic tiles |
| 6 Ceramic tiles | 13 Keracolor FF grouting |
| 7 Kerapoxy CQ grouting | 14 Mapesil Z Plus sealant |



Waterproofing membranes

Mapegum WPS

DESCRIPTION

Quick-drying, flexible liquid membrane for waterproofing internal surfaces.

APPLICATION

Mapegum WPS must be evenly applied in two coats with a long pile roller, a brush or a trowel; wait until the first coat is dry (at least 1-2 hours after applying the first coat) before applying the second coat crossways. Wait at least 12-24 hours after applying the second coat to install the covering.

Mapegum WPS can be applied on plasterboard, existing ceramic coverings, lightweight cement, marine plywood, anhydrite substrates, wood, magnesite, stone, concrete, render and cementitious screeds.

In case of cementitious, anhydrite, wooden and magnesite substrates and existing ceramic and natural stone coverings prime the surface with Eco Prim T Plus.

ADVANTAGES



WATERPROOFING



EXCELLENT WORKABILITY



EASY TO USE



SUITABLE FOR DIFFERENT SUBSTRATES



QUICK DRYING



ODOURLESS AND SOLVENT FREE

CERTIFICATIONS AND MARKINGS



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PACKAGING

5, 10 and 20 kg rectangular drums.

CONSUMPTION

0.6 kg/m² (per coat).



Mapelastic AquaDefense ZERO

DESCRIPTION

Ready-to-use, ultra quick-drying, flexible liquid membrane for internal and external waterproofing, with fully offset greenhouse gas emissions.

APPLICATION

Apply Mapelastic AquaDefense ZERO evenly in two coats using a long-haired roller, brush or trowel. Wait for the first coat to be fully dry, checking that the product turns a darker, more opaque color (at least 1 hour after application of the first coat), before applying the next coat crossways. Wait at least 4 hours after applying the second coat to install the covering.

Mapelastic AquaDefense ZERO can be applied on plasterboard, existing ceramic coverings (after applying Eco Prim Grip Plus), marble-chip tiles, stone material, concrete, render and cementitious screeds.

ADVANTAGES



WATERPROOFING



EXCELLENT WORKABILITY



EASY TO USE



SUITABLE FOR DIFFERENT SUBSTRATES



QUICK DRYING



HIGHLY FLEXIBLE

CERTIFICATIONS AND MARKINGS



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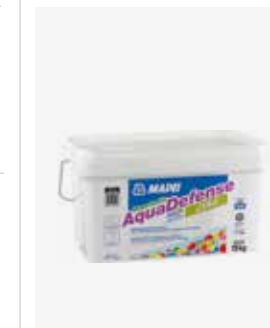


PACKAGING

3.5, 7.5 and 15 kg rectangular drums.

CONSUMPTION

0.5 kg/m² (per coat).





Mapeband SA

DESCRIPTION

Self-adhesive butyl tape with alkali-resistant non-woven fabric for flexible waterproofing systems.

APPLICATION

Unroll **Mapeband SA** and cut it to the desired length. Lay **Mapeband SA** at the starting point of the joint to be waterproofed and partially remove one of the two flaps of the protective film. Apply pressure from the center of the tape towards the edges to promote tape adhesion and to avoid the formation of creases and air bubbles. Remove the remaining part of the protective film and complete the installation of **Mapeband SA**. Then press the whole surface with a rubber roller to achieve good initial adhesion.

ADVANTAGES



RESISTANT
TO ALKALIS



EASY TO USE



SUITABLE FOR
DIFFERENT
SUBSTRATES



VERSATILITY
AND
ADAPTABILITY

CERTIFICATIONS AND MARKINGS



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PACKAGING

- Box containing one roll 25 m long and 10 cm wide;
- Box containing 10 tiles 370 mm x 370 mm.



Mapeband PE 120

DESCRIPTION

Rubber tape for waterproofing systems created using liquid membranes.

APPLICATION

Apply a thin layer of at least 1 mm of the chosen liquid membrane on the sides of the edges and expansion joints to be waterproofed with **Mapeband PE 120**. Embed the mesh side of **Mapeband PE 120** tape or of special pieces (such as edges and fittings) on the **liquid membrane** layer while still fresh, using a smooth trowel.

ADVANTAGES



EASY TO USE



HIGHLY
FLEXIBLE



VERSATILITY
AND
ADAPTABILITY

CERTIFICATIONS AND MARKINGS



CHECK THE
TECHNICAL
DATASHEET
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PACKAGING

- 50 m long and 120 mm wide rolls.
- 10 m long and 120 mm wide rolls.
- Special pieces:**
- 90° and 270° corners.
- 120x120 mm and 425x425 mm collars for passing-through pipes.





Swimming pools

In the construction of swimming pools, the aspect to which the most attention is normally paid is the aesthetic one: the shape of the pool, the size, the covering, etc. In reality, when deciding to build a swimming pool, the most important and most delicate aspect to consider is the design of the work itself. Unfortunately, mistakes and omissions in the design phase lead to unpleasant consequences in terms of water seal and durability of the structure over time. To summarise the key points to take into account when designing hydraulic structures, these should be:

- correct mix design;
- protection and external waterproofing of structures;
- sealing of construction joints and elements for recirculation, filtering and lighting systems;
- preparation and internal waterproofing of tanks;
- appropriate choice of materials for surface finishing.

Pool waterproofing is one of the most important and delicate operations in the whole process. In fact, the pool waterproofing project will have to take two main factors into account:

- the **water in the tank** creates **pressure** and also has a certain **corrosive potential**, given by the presence of chlorine and other disinfectant chemicals;
- **ground water**, that is, water in the surrounding soil, which may be permanent or temporary, may also lead to **deterioration of the pool structure**.

In both **restoration** and **new construction** works for pools, **Mapei** offers waterproofing products characterised by **innovative technologies** and **cutting-edge solutions** that **guarantee resistance, quality** and **durability** combined with a **quick application** and **optimal aesthetic performance**.

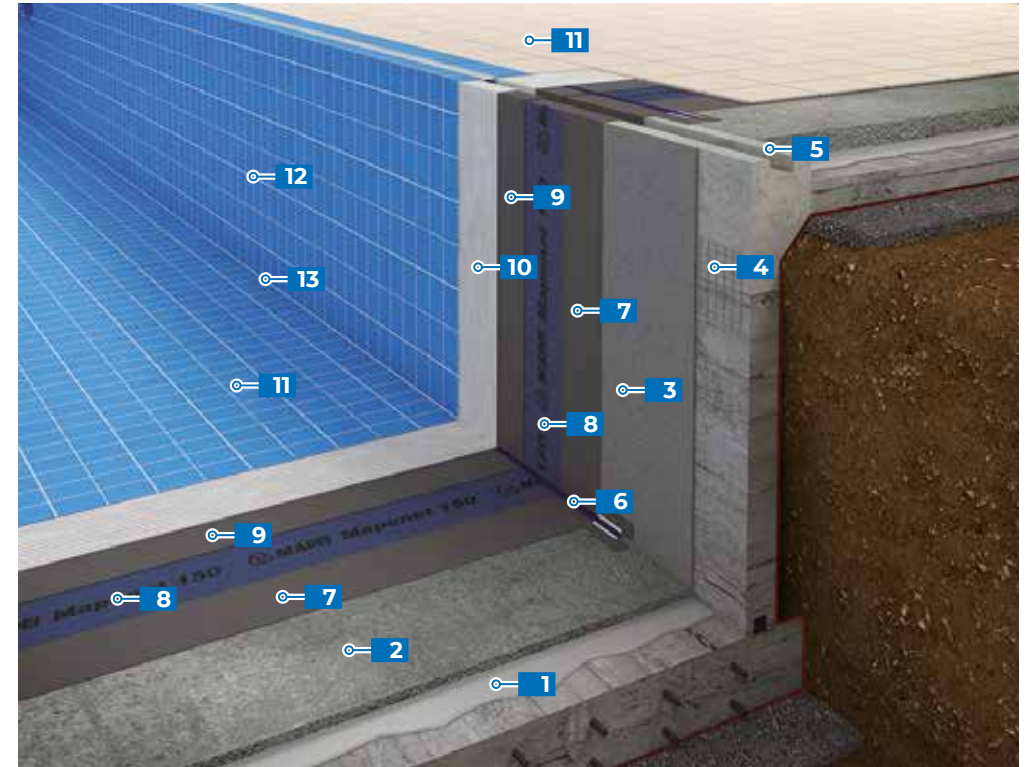


System for exposed pool waterproofing.

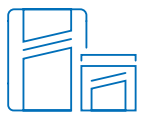


- 1** Concrete structures
- 2** Cove with **Eporip + Mapegrout 430 ZERO**
- 3** **Planiseal 288 white** (3 coats)

System for waterproofing and laying ceramic tiles in swimming pool of new construction.



- 1** **Planicrete** based adhesion slurry
- 2** **Topcem Pronto** screed
- 3** Cementitious render **Nivoplan + Planicrete**
- 4** Steel mesh for render
- 5** Duct prefabricated element
- 6** Rubber tape **Mapeband Easy**
- 7** Cementitious waterproofing product **Mapelastico ZERO** (1st coat)
- 8** Glass fibre mesh **Mapenet 150**
- 9** Cementitious waterproofing product **Mapelastico ZERO** (2nd coat)
- 10** **Keraflex Maxi SI ZERO** adhesive
- 11** Ceramic tiles
- 12** **Ultracolor Plus** grouting
- 13** **Mapesil AC ECO** sealant



Waterproofing membranes

Planiseal 288

DESCRIPTION

Two-component cementitious mortar for waterproofing underground structures, tanks and concrete structures in general.

APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing, then mix **Planiseal 288** thoroughly for a few minutes. Spread 2 coats, waiting at least 6 hours between coats, to reach a final thickness of at least 2 mm. In case of swimming pools and tanks, the product should be applied in 3 coats (final thickness 3 mm).

Planiseal 288 can be applied on **concrete**.



PACKAGING

25 kg unit:
- component A: 20 kg bags;
- component B: 5 kg drum.

COLOURS

White or grey.

CONSUMPTION

1.9 kg/m²
(per mm of thickness).

ADVANTAGES



WATERPROOFING



WATERTIGHT
UP TO 1.5 BAR



EXCELLENT
WORKABILITY



PLEASING
AESTHETIC
EFFECT



PERFECT
ADHESION

CERTIFICATIONS AND MARKINGS



CHECK THE
TECHNICAL
DATASHEET

on mapei.com



Mapelastic ZERO

DESCRIPTION

Two-component cementitious mortar, flexible down to -20°C, for waterproofing balconies, terraces, bathrooms and swimming pools, with fully offset greenhouse gas emissions.

APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing. Mix **Mapelastic ZERO** thoroughly for a few minutes.

Apply the product by brush, roller or trowel, within 60 minutes of its mixing in at least two coats, waiting at least 4-5 hours between coats, for a final thickness of at least 2 mm. If required, embed **Mapenet 150** mesh on the entire surface between coats. After applying the second coat of **Mapelastic ZERO** wait at least 5 days before laying the covering. **Mapelastic ZERO** can be applied on **concrete, render, existing ceramic coverings and cementitious screeds**.



PACKAGING

Mapelastic ZERO

- 32 kg unit:
- component A: 24 kg bags;
- component B 8 kg drums.
- 16 kg unit:
- component A
- 2 x 6 kg bags
- component B
- one 4 kg drum.

Mapenet 150

50 metre rolls, 1 m height.

CONSUMPTION

1.7 kg/m²
(per mm of thickness).

ADVANTAGES



WATERPROOFING



HIGHLY
FLEXIBLE



DURABLE
OVER TIME



SUITABLE FOR
DIFFERENT
SUBSTRATES



UV
RESISTANT



COMPLETE
SYSTEM

CERTIFICATIONS AND MARKINGS



CHECK THE
TECHNICAL
DATASHEET

on mapei.com





System accessories

Mapeband Easy

DESCRIPTION

Rubber tape embedded between two layers of non-woven fabric to form elastic joints in waterproofing systems.

APPLICATION

Apply one layer of the chosen waterproofing product to the sides of the edges and/or expansion joints to be waterproofed with **Mapeband Easy**. Then apply the tape by making it well adhere to the applied waterproofing. Joints between pieces of **Mapeband Easy** must be made by overlapping edges for at least 5 cm and bonding using the chosen waterproofing product. Once applied to all joints and fittings, proceed with the installation of the chosen waterproofing system. Where contraction joints are present, apply the waterproofing on **Mapeband Easy** leaving the central strip exposed in order to make the joint visible and subsequently apply the covering accordingly.

ADVANTAGES



RESISTANT TO ALKALIS



EASY TO USE



HIGHLY FLEXIBLE



VERSATILITY AND ADAPTABILITY

CERTIFICATIONS AND MARKINGS



CHECK THE TECHNICAL DATASHEET

on mapei.com



PACKAGING

- 130 mm x 30 m rolls;
- 130 mm x 10 m rolls.

Special pieces:

- 90° and 270° corners.
- 200x200 mm and 400x400 mm tiles for passing-through pipes.



Alternative products for the proposed solutions

Mapei offers several solutions for swimming pools, while maintaining the same guarantee of **quality** and **durability**. Specifically in case of negative hydraulic pressure, the recommended product is **Mapelastico Foundation**, a two-component and flexible cementitious mortar.





Alternative products for the proposed solutions

Mapelastic Foundation

DESCRIPTION

Two-component flexible cementitious mortar for waterproofing concrete surfaces subject to positive and negative hydraulic pressure.

APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing. Then mix thoroughly **Mapelastic Foundation** for a few minutes. Spread 2 coats, waiting at least 6 hours between coats, to reach a final thickness of at least 2 mm. **Mapelastic Foundation** can be applied on **concrete** and **cementitious substrates**.



PACKAGING

32 kg unit:
- component A
22 kg bags;
- component B
10 kg drum.

CONSUMPTION

1.65 kg/m²
(per mm of thickness).

ADVANTAGES



WATERPROOFING



WATERTIGHT
UP TO 1.5 BAR



SUITABLE FOR
DIFFERENT
SUBSTRATES



HIGHLY
FLEXIBLE



EXCELLENT
WORKABILITY

CERTIFICATIONS AND MARKINGS



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Mapeband TPE

DESCRIPTION

TPE tape for flexible sealing and waterproofing of expansion joints and cracks subject to movement.

APPLICATION

Apply a first even coat of **Adesilex PG4** on the clean and dry substrate using a smooth trowel. Apply **Mapeband TPE** by pressing lightly along the sides of the tape made from non-woven fabric, making sure there are no creases or air bubbles. Apply a second coat of **Adesilex PG4** wet on wet completely covering the fabric strip. Once the application of the second layer of **Adesilex PG4** is finished, broadcast with **Quartz 0.5**. Joints between two strips of **Mapeband TPE** must be made by overlapping and bonding together the central TPE parts of at least 5 cm by hot or cold welding.



PACKAGING

- **Mapeband TPE 170**
(width 17 cm)
30 m x 17 cm roll;
- **Mapeband TPE 325**
(width 32.5 cm)
30 m x 32.5 cm roll.

ADVANTAGES



RESISTANT
TO WATER



EASY TO USE



HIGHLY
FLEXIBLE



SUITABLE FOR
DIFFERENT
SUBSTRATES



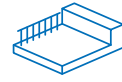
VERSATILITY
AND
ADAPTABILITY



RESISTANT
TO LOW
TEMPERATURES

CHECK THE
TECHNICAL
DATASHEET
on mapei.com





Small exposed coverings

The covering is the element that **covers and protects the building** underneath. As such, it must **protect** environments from **weather conditions** such as rain, snow and cold and, at the same time, be able to withstand the stresses given by the same weather agents' action.

A covering can have several functions, being it a simple **balcony or terrace** or a **technical covering** (where a building's plant equipment is housed), or a **green roof**.

Regardless of what its function is, it is essential to define the correct waterproofing system so that the covering can efficiently **protect** the building and **resist** over time, ensuring **durability** to the structure.

Therefore, a proper waterproofing of small exposed coverings is necessary in order to:

- prevent the **degradation** of structures;
- improve the **comfort** of living environments;
- minimise maintenance **costs**.

Mapei products and solutions for coverings make it possible to reach the desired results in waterproofing and protection against all **atmospheric aggressions** and **stresses** (both thermal and mechanical). At the same time, they ensure **durability, quality** and **environmental sustainability** of the constructions themselves.



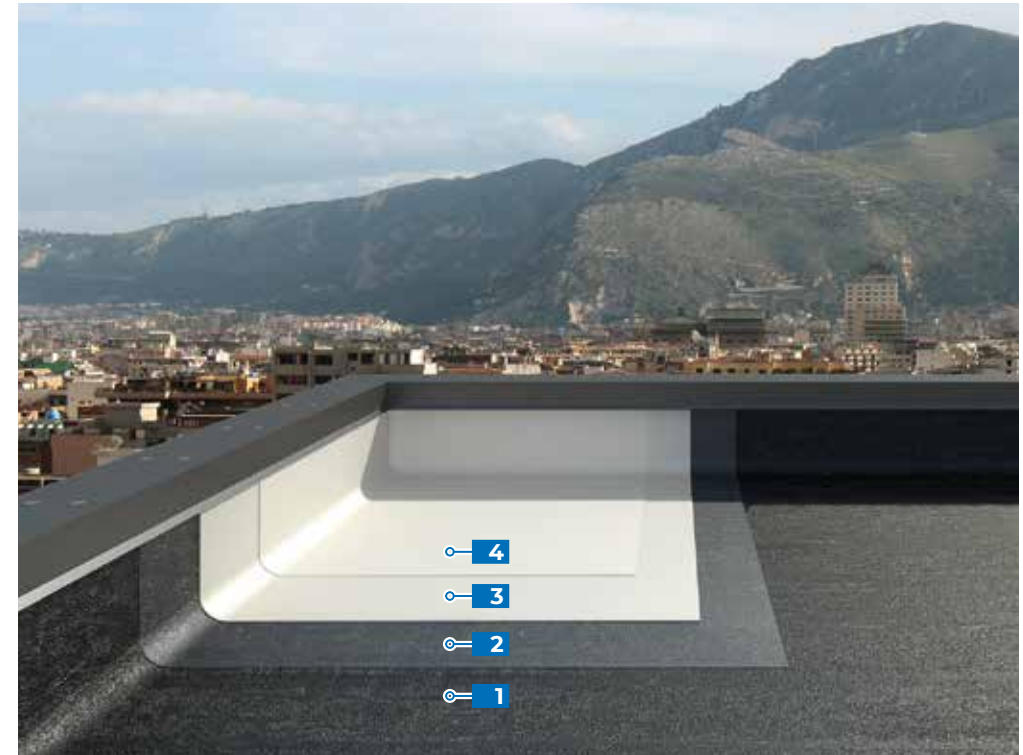
Systems and solutions for **waterproofing**

System for waterproofing old tiled coverings using a ready-to-use coloured waterproofing product.



- 1 Old ceramic flooring
- 2 Coving **Planitop Fast 330**
- 3 Primer **Primer SN + Quarzo 0,5**
- 4 Ready-to-use polyurethane waterproofing
Purtop Easy + Purtop ADY
- 5 Protective finish
Mapecoat PU 20 N + Mapecoat Filler

System to restore watertightness of old bituminous coverings through ready-to-use high reflectance waterproofing product.



- 1 Old deteriorated bituminous covering (with overlap)
- 2 **Aquaflex Primer**
- 3 Ready-to-use waterproofing
Aquaflex Roof HR (1st coat)
- 4 Ready-to-use waterproofing
Aquaflex Roof HR (2nd coat white)



Waterproofing membranes

Purtop Easy

DESCRIPTION

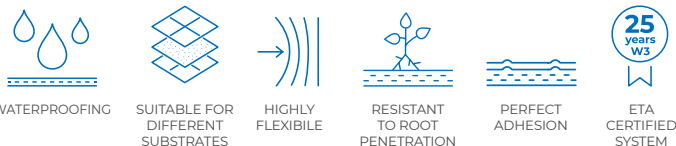
One-component, elastic polyurethane waterproofing membrane. Before applying the product, it is necessary to mix it with Purtop ADY additive.

APPLICATION

Purtop Easy is a one-component ready to use product that can be applied in a single coat. After accurately preparing and priming the substrate, apply **Purtop Easy** starting from the joints between horizontal and vertical surfaces. Proceed with the application, either by trowel or spray, spreading the product evenly to reach a final thickness of minimum 1.2 mm **Purtop Easy** can also be applied by airless spray, provided it is not admixed with **Purtop ADY** or **Additix P**. In case of spray application, **Purtop Easy** must be thinned with 5-10% of **Thinner PU**. Then apply **Mapecoat PU 20 N** to stabilise the colour of the covering. **Purtop Easy** can be applied on **concrete, cementitious screeds, ceramics, fibre cement slabs and old bituminous membranes.**

TYPE OF SUBSTRATE	PRIMER
Cementitious substrate with less than 4% residual moisture	Primer PU Fast or Mapecoat I 600 W or Primer SN + Quartz 0.5
Cementitious substrate with more than 4% residual moisture	Primer EP 4 Fast
Smooth bituminous membrane	Mapecoat I 600 W diluted 1:1 with water
Metal substrate (unpainted)	Primer EP 100W or Mapedeck Primer 200
Old ceramic flooring	Primer SN + Quartz 0.5

ADVANTAGES



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PACKAGING

Purtop Easy
15 kg and 25 kg metal drums.
Purtop ADY
2 l and 1.2 l packages.

CONSUMPTION

Purtop Easy
2 kg/m² with **Purtop ADY**.
Purtop ADY
• 2 l per 25 kg drum;
• 1.2 l per 15 kg drum.



Aquaflex Roof / Aquaflex Roof HR

DESCRIPTION

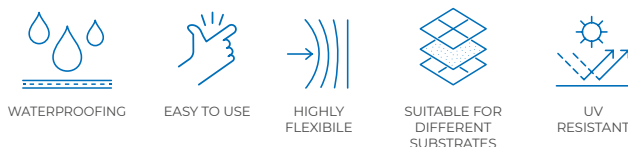
Ready-to-use, flexible liquid membranes with fibres
For outdoor continuous waterproofing.
Also available in high reflectance version.

APPLICATION

Aquaflex Roof / Aquaflex Roof HR must be applied by long-haired roller, brush or airless spray. Proceed with the application of **Aquaflex Roof / Aquaflex Roof HR** in two coats, of dry thickness of about 0.4-0.5 mm each. Wait until the first coat is completely dry, making sure the product takes on a slightly darker colour, before applying the next coat. The second coat should be applied crossways on the first one. The dry thickness of **Aquaflex Roof / Aquaflex Roof HR** must never be less than 0.8-1 mm. Protect membranes from rain until completely dry. **Aquaflex Roof / Aquaflex Roof HR** can be applied on **concrete, cementitious screeds, existing bituminous membranes, stone coverings, wood and metal.**

TYPE OF SUBSTRATE	PRIMER
Cementitious substrate with less than 4% residual moisture	Feather-edge coat of Aquaflex Roof / Aquaflex Roof HR
Smooth bituminous membrane	Aquaflex Primer
Metal substrate (unpainted)	Eco Prim Grip Plus
Old ceramic flooring	Eco Prim Grip Plus

ADVANTAGES



CERTIFICATIONS AND MARKINGS



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Aquaflex Roof

Aquaflex Roof HR



PACKAGING

Aquaflex Roof HR
20 kg drum.
Aquaflex Roof
5 kg and 20 kg drum.

COLOURS

Available in various colours.

CONSUMPTION

As **waterproofing membrane**: at least 2 kg/m².
As **protective finish** on bituminous membranes:
• approx. 0.5 kg/m² on smooth membranes;
• approx. 0.9 kg/m² on mineral-filled membranes.





Alternative products for the proposed solutions

Mapei offers several solutions for small exposed coverings, while maintaining the same guarantee of quality and durability. Specifically, in case of standing water or damp substrates, the recommended product is **Aquaflex S 1K**, a ready to use liquid membrane based on silane-terminated polymers.



Aquaflex S 1K

DESCRIPTION

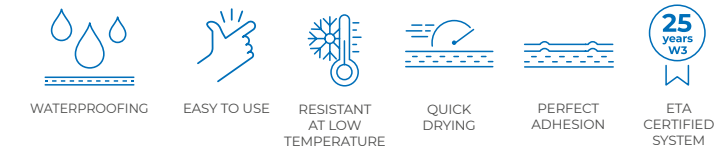
Ready to use liquid membrane based on silane-terminated polymers, for indoor and outdoor waterproofing, including on damp substrates.

APPLICATION

The product is ready to use, but mixing is still recommended to achieve perfect homogeneity. Apply **Aquaflex S 1K** in two coats by brush, roller or trowel to a final dry thickness of at least 1.5 mm. **Aquaflex S 1K** can be applied on **concrete, cementitious screeds, existing bituminous membranes, plasterboard, PVC and metals.**

TYPE OF SUBSTRATE	PRIMER
Cementitious substrate with less than 4% residual moisture	Thin coat of Aquaflex S 1K or Primer SN + Quartz 0.5
Cementitious substrate with more than 4% residual moisture	Thin coat of Aquaflex S 1K
Smooth bituminous membrane	Mapecoat I 600 W diluted 1:1 with water
Metal substrate (unpainted)	-
Gypsum/plasterboard substrate	Primer G diluted 1:1 or 1:2 with water
PVC	-

ADVANTAGES



CERTIFICATIONS AND MARKINGS



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PACKAGING
5 and 10 kg buckets.

CONSUMPTION
Minimum 1.2 kg/m²
per coat.





Technical premises and basements

The **water tightness of buildings**, especially in **basements**, probably represents the most **complex** situation of all waterproofing activities carried out in civil and industrial construction. All **basements**, coming in contact with soil moisture or groundwater, must be protected to ensure that their **durability** is granted.

It should be kept in mind that during heavy rainfall or otherwise in presence of **groundwater**, it is possible for the water level to rise or for the soil to become saturated, and this can lead to consequences regarding **pressure on the structure**.

It is necessary for underground waterproofing materials to perform two tasks:

- to resist static, horizontal and vertical loads;
- to be watertight and damp-proof.

Therefore, it is essential that the solutions ensure **continuity** thanks to **complete systems** and **counter-pressure waterproofing** to prevent seepage that will then lead to **infiltration** or, in the most severe cases, to **masonry deterioration** in environments.

In both **renovation** and **new creation** of **technical premises and basements**, Mapei offers waterproofing products characterised by **innovative technologies and cutting-edge solutions**, which are **easy to use, quick to apply** and put into service, with a guarantee of **durability** and **continuity**.



Complete system for seepage treatment and waterproofing of existing underground structures used as utility rooms.



- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Existing cementitious structure 2 Levelling with mortars from Mapegrout range 3 Lamosilex hydraulic binder 4 Waterproof sealing Mapeproof Swell 5 Repair with mortars from Mapegrout range 6 Tape Mapeband TPE + Adesilex PG4 | <ul style="list-style-type: none"> 7 Waterproofing Mapelastic Foundation (1st coat) 8 Waterproofing Mapelastic Foundation (2nd coat) 9 Elastomeric paint Elastocolor Pittura ZERO 10 Keraflex Maxi SI ZERO adhesive 11 Tiles covering 12 Ultracolor Plus grouting 13 Mapesil AC ECO sealant |
|---|---|



Mapelastic Foundation

DESCRIPTION

Two-component flexible cementitious mortar for waterproofing concrete surfaces subject to positive and negative hydraulic pressure.

APPLICATION

Pour component B (liquid) in a suitable clean container, then slowly add component A (powder) while mixing. Then mix thoroughly **Mapelastic Foundation** for a few minutes. Spread 2 coats, waiting at least 6 hours between coats, to reach a final thickness of at least 2mm.

Mapelastic Foundation can be applied on **concrete and cementitious substrates**.



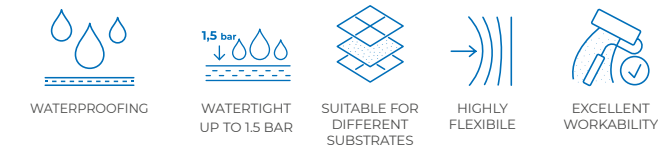
PACKAGING

32 kg unit:
- component A:
22 kg bags;
- component B
10 kg drum.

CONSUMPTION

1.65 kg/m²
(per mm of thickness).

ADVANTAGES



CERTIFICATIONS AND MARKINGS



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Mapeband TPE

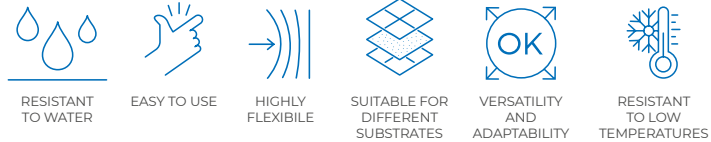
DESCRIPTION

TPE tape for flexible sealing and waterproofing of expansion joints and cracks subject to movements.

APPLICATION

Apply a first even coat of **Adesilex PG4** on the clean and dry substrate using a smooth trowel.
Apply **Mapeband TPE** by pressing lightly along the sides of the tape made from non-woven fabric, making sure there are no creases or air bubbles. Apply a second layer, wet on wet, of **Adesilex PG4** covering the fabric strip completely.
Once the application of the second layer of **Adesilex PG4** is finished, broadcast with **Quartz 0.5**.
Joints between two strips of **Mapeband TPE** must be made by overlapping and bonding together the central TPE parts of at least 5 cm by hot or cold welding.

ADVANTAGES



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PACKAGING
Mapeband TPE 170
(width 17 cm)
30 m x 17 cm roll.
Mapeband TPE 325
(width 32.5 cm)
30m x 32.5 cm roll.



Lamposilex

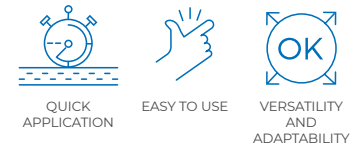
DESCRIPTION

Ultra-fast-setting and hardening hydraulic binder for blocking water infiltration.

APPLICATION

Pour **Lamposilex** in a container with water at a ratio of 1:2.5 and mix directly by hand or with a trowel until the mixture is smooth and lump-free. due to the rapid setting of **Lamposilex**, it advisable to prepare each time only quantities that can be applied within 1 minute. Mold **Lamposilex** manually into the shape of a plug. Wait for a few seconds until mix begins to cure, then force product into crack or hole. Keep under pressure for 2-3 minutes until set. Once the intervention is complete, remove any excess material with a sandpaper disk or abrasive wheel.

ADVANTAGES



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PACKAGING
Boxes containing 4x5 kg bags.
CONSUMPTION
1.8 kg for one dm³ of cavity to be filled.





System accessories

Mapeproof Swell

DESCRIPTION

One-component hydro-expansive paste in cartridge for waterproof crack sealing in concrete.

APPLICATION

After locally demolishing the crack or construction joint and obtaining a clean substrate with no surface water, cut the nozzle of the cartridge according to the desired size of the bead and then extrude **Mapeproof Swell** along the crack. Then rebuild the demolished parts using a suitable structural cementitious mortar.

ADVANTAGES



HIGHLY FLEXIBLE



EASY TO USE



VERSATILITY AND ADAPTABILITY

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PACKAGING

Cardboard boxes containing 6x320 ml cartridges.

CONSUMPTION

One cartridge yields approx. 3 linear metres of product.



Alternative products for the proposed solutions

Mapei offers several solutions for technical premises and basements, while maintaining the same guarantee of quality and durability. Specifically in the case of horizontal structures subject to pressure generated by groundwater, the recommended product is **Mapeproof**, to be used together with **Mapeproof Mastic** and **Mapeproof Seal**.





Alternative products for the proposed solutions

Mapeproof

DESCRIPTION

Bentonite waterproofing membrane for structures below ground level, for both horizontal and vertical surfaces.

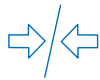
APPLICATION

Lay the bentonite membrane over the entire surface and fold it up over the surfaces perpendicular to that of application. Overlap the different membranes lengthways by jointing them with nails and **Mapeproof CD** washers. In the case of vertical and horizontal joints with **Mapeproof** or between **Mapeproof** and **Mapelastic Foundation**, use **Mapeproof Mastic**. In the presence of pipes and through-elements such as foundation piles, apply **Mapeproof Seal** before laying **Mapeproof** bentonite membrane, suitably cut to shape, in order to locally reinforce the planned waterproofing. In the case of construction joints, along with the products already mentioned, use **Idrostop B25**, water-expanding bentonite jointing tape.

ADVANTAGES



WATERPROOFING



HIGH MECHANICAL RESISTANCE



ADHESION TO POURED CONCRETE



WATERTIGHT OVERLAPS



DURABLE OVER TIME

CERTIFICATIONS AND MARKINGS



EN 13361
EN 13362
EN 13491
EN 15382

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PACKAGING

Mapeproof
1.1 m x 5 m roll.
Idrostop B25
Box containing
6 x 5 m rolls.



Mapeproof Mastic e Mapeproof Seal

DESCRIPTION

Mapeproof Mastic:
natural sodium bentonite putty and plastifiers.
Mapeproof Seal:
Natural sodium bentonite with high content of montmorillonite, high swelling capacity and water absorption.

APPLICATION

Mapeproof Mastic

In the presence of through-elements, shape **Mapeproof** around them. Apply **Mapeproof Mastic** on the membrane, then place a further piece of membrane by securing it with nails and **Mapeproof CD** washers. In the presence of connectors, apply **Mapeproof** bentonite membrane perforating it, so that connectors can pass through. Grout the hole created to insert the connectors with **Mapeproof Mastic**.

In case **Mapelastic Foundationis** used for waterproofing of vertical surfaces after pouring concrete, grout the 10-cm overlap between **Mapeproof** bentonite membranes using **Mapeproof Mastic**.

Mapeproof Seal

In the presence of pipes and through-elements such as foundation piles, apply **Mapeproof Seal** before laying **Mapeproof** bentonite membrane, suitably cut to shape.

ADVANTAGES



EASY TO USE



COMPLETE SYSTEM



HIGH COMPATIBILITY

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Mapeproof Mastic



Mapeproof Seal



PACKAGING

Mapeproof Seal
25 kg paper bags.
Mapeproof Mastic
15 kg buckets.





Drinking water tanks and reservoirs

Tanks and reservoirs for water storage are structures in continuous contact with **water and chemicals**.

For this reason, it is not uncommon for there to be **infiltrations**, also favored by movement and settling, and thus waterproofing is needed to resist both positive and negative hydrostatic pressure.

Infiltrations can cause more serious consequences such as deterioration of building materials; therefore, the materials chosen for **waterproofing** must ensure speed of installation, excellent **watertightness in counter-pressure**, adhesion to **different types of materials**.

Lastly, it is important that the products are certified for contact with drinking water, a feature that allows them to be used to store water for human consumption.

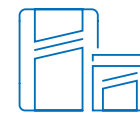
In both **renovation** and **new construction** of **drinking water tanks and reservoirs**, Mapei offers waterproofing products characterised by **innovative technologies and cutting-edge solutions** that guarantee **resistance** and **certification** for contact with drinking water, combined with **ease of use** and **durability**.



Systems for waterproofing drinking water holding tanks.



- 1** Concrete
- 2** Planiseal 88 (1st coat)
- 3** Planiseal 88 (2nd coat)



Planiseal 88

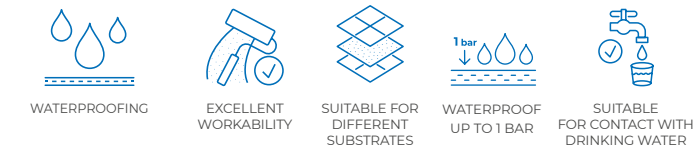
DESCRIPTION

Osmotic cementitious mortar suitable for contact with drinking water, for waterproofing masonry and concrete structures.

APPLICATION

Pour 5.25 ÷ 5.75 l of water in a suitable clean container and add **Planiseal 88** while mixing for a few minutes. Let the mix to stand for about 10 minutes, stir again and apply by brush, trowel or spray. Brush application requires 2-3 coats (2.5 mm thickness), waiting between coats until the previous one is sufficiently dry (at least 5-6 hours). In case of trowel application, it is recommended to treat the substrate with a first coat of **Planiseal 88** by brush beforehand. In case of spray application, an ordinary rendering machine can be used, provided that the product is mixed in advance. After saturating the substrate with water, spray the mixture in at least 2 coats (2.5 mm thickness), waiting for partial hardening between the first and second coat. **Planiseal 88** can be applied on **concrete, bricks and blocks**.

ADVANTAGES



CERTIFICATIONS AND MARKINGS



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PACKAGING
25 kg bag.

COLOURS
White or grey.

CONSUMPTION
1.5 kg/m²
(per mm of thickness).





Alternative products for the proposed solutions

Mapei offers several solutions for drinking water tanks and reservoirs, while maintaining the same guarantee of quality and durability. Specifically, if subject to **particular movements** or **loads** for which a more elastic material is needed, the recommended product is **Purtop Easy DW**, two-component flexible polyurethane membrane.



Purtop Easy DW

DESCRIPTION

Two-component, flexible polyurethane membrane for waterproofing drinking water tanks.

APPLICATION

Mix all the content of component B in the container of component A and mix for at least 3 minutes until a homogeneous mix is obtained. After accurately preparing and priming the substrate, apply **Purtop Easy DW** by roller or trowel in a minimum of 2 coats for a final thickness of 2 mm. **Purtop Easy DW** can be applied on **concrete, cementitious screeds** and **metals**.

ADVANTAGES



WATERPROOFING



SUITABLE FOR
DIFFERENT
SUBSTRATES



CHEMICAL
RESISTANCE



HIGHLY
FLEXIBLE



SUITABLE FOR
CONTACT WITH
DRINKING WATER

CERTIFICATIONS AND MARKINGS



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PACKAGING

Metal drums.
- component A
12.2 kg drums;
- component B
2.8 kg drums.

CONSUMPTION

1.25 kg/m²
(per mm of thickness).





Planters

A planter is usually made of concrete and, therefore, not waterproof. Concrete, in fact, is a porous material and as such it is very sensitive to **water infiltration** and **freeze and thaw** cycles. The capillary porosity of concrete causes surface water to penetrate its structure and stagnate.

Water, therefore, is one of the main enemies of concrete. Waterproofing a concrete planter or container is essential to prevent **water infiltration** and **further damage**. A well-waterproofed planter can prevent the occurrence of staining on the facade and thus avoid the following **degradation of concrete**.

Also the roots of the plants that are grown in the planters must be taken into account: the chosen waterproofing product must therefore be suitable to withstand this factor.

In **renovation interventions** that affect **planters**, Mapei offers waterproofing products characterised by **innovative technologies** and **cutting-edge solutions** that guarantee **durability** and **resistance to roots**, combined with **elasticity** and **excellent aesthetic qualities**.



System for planters waterproofing.



- 1** Concrete structure
- 2** Primer **Primer SN + Quarzo 0,5**
- 3** Waterproofing **Purtop EASY + Purtop ADY**
- 4** Drainage layer **Polyfond Kit Drain**
- 5** Coloured finish **Mapecoat PU 20 N**
- 6** Keralastic adhesive
- 7** New flooring
- 8** **Ultracolor Plus** grouting
- 9** Sealant **Mapesil AC ECO + Mapefoam**



Purtop Easy

DESCRIPTION

One-component, elastic polyurethane waterproofing membrane. Before applying the product, it is necessary to mix it with Purtop ADY additive.

APPLICATION

Purtop Easy is a one-component ready to use product that can be applied in a single coat. After accurately preparing and priming the substrate, apply **Purtop Easy** starting from the joints between horizontal and vertical surfaces. Proceed with the application, either by trowel or spray, spreading the product evenly to reach a final thickness of minimum 1.2 mm **Purtop Easy** can also be applied by airless spray, provided it is not admixed with **Purtop ADY** or **Additix P**. In case of spray application, **Purtop Easy** must be diluted with 5-10% **Thinner PU**. Then apply **Mapecoat PU 20 N** to stabilise the colour of the covering. **Purtop Easy** can be applied on **concrete, cementitious screeds, ceramics, fibre cement slabs and old bituminous membranes.**



PACKAGING

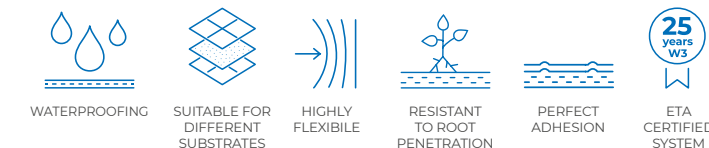
Purtop Easy
15 kg and 25 kg metal drums.
Purtop ADY
2 l and 1.2 l packages.

CONSUMPTION

Purtop Easy
2 kg/m² with **Purtop ADY**.
Purtop ADY
• 2 l per 25 kg drum;
• 1.2 l per 15 kg drum.

TYPE OF SUBSTRATE	PRIMER
Cementitious substrate with less than 4% residual moisture	Primer PU Fast or Mapecoat I 600 W or Primer SN + Quartz 0.5
Cementitious substrate with more than 4% residual moisture	Primer EP 4 Fast
Smooth bituminous membrane	Mapecoat I 600 W diluted 1:1 with water
Metal substrate (unpainted)	Primer EP 100W or Mapedeck Primer 200
Old ceramic flooring	Primer SN + Quartz 0.5

ADVANTAGES



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System accessories

Mapeband SA

DESCRIPTION

Self-adhesive butyl tape with non-woven fabric alkali-resistant for flexible waterproofing systems.

APPLICATION

Unroll **Mapeband SA** and cut it to the desired length. Lay **Mapeband SA** at the starting point of the joint to be waterproofed and partially remove one of the two flaps of the protective film. Apply pressure from the center of the tape towards the edges to promote tape adhesion and to avoid the formation of creases and air bubbles. Remove the remaining part of the protective film and complete the installation of **Mapeband SA**. Then press the whole surface with a rubber roller to achieve good initial adhesion.



PACKAGING

- Box containing one roll 25 m long and 10 cm wide;
- Box containing 10 tiles 370 mm x 370 mm.

ADVANTAGES



RESISTANT TO ALKALIS



EASY TO USE



SUITABLE FOR DIFFERENT SUBSTRATES



VERSATILITY AND ADAPTABILITY

CERTIFICATIONS AND MARKINGS



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CO₂ FULLY OFFSET PRODUCTS



CO₂ emissions measured throughout the life cycle of products from the **ZERO Line** in 2024 using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of certified carbon credits in support of forestry protection projects.

A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate mitigation projects financed through certified carbon credits, visit the webpage ZERO.mapei.com.

Building a **SUSTAINABLE** future together

EVERYTHING'S OK,
WITH MAPEI



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