

MAPEGUARD WP 90

Alkali-resistant, waterproofing and decoupling
membrane under ceramic and natural stone tiles



WHERE TO USE

Waterproofing and decoupling membrane, made of soft polyethylene, for direct application under ceramic and natural stone tiles with thin-set mortar.

Some application examples

- **Mapeguard WP 90** is a bonded waterproofing and decoupling membrane used in wet and damp areas in residential and commercial buildings such as domestic and hotel bathrooms, private or commercial showers, whirls of swimming pools and small size balcon.
- Waterproofing membrane on moisture-sensitive substrates (such as gypsum plasters and gypsum fiber boards, calcium sulphate screeds) and mineral surfaces (such as cement plaster, porous concrete, concrete, cement screed, cement-based panels).

TECHNICAL CHARACTERISTICS

Mapeguard WP 90 is a flexible, thin-layer, waterproof isolating sheet of polyethylene, coated on both sides with a non-woven polypropylene fabric. The non-woven fabric ensures a relevant bond strength of the adhesive between the membrane and the substrate/covering.

Properties

- Waterproofing.
- High tensile strength.
- High tensile bond strength adhesive connection with tile adhesives.
- Alkali-resistant.

RECOMMENDATIONS

- Do not use **Mapeguard WP 90** if the environmental temperature is lower than +5°C.
- The use of **Mapeguard WP 90** as a decoupling membrane does not avoid the need of movement joints.
- **Mapeguard WP 90** is not permanent UV-resistant and so it has to be covered with a ceramic or natural stone.
- All the in force national peculiarities and guidelines have to be observed.
- Do not apply any smoothing layer after the bonding of **Mapeguard WP 90**.

HOW TO USE

Preparation of the substrate

The substrate must be dry, stable, sound, flat and free from loose particles and other materials, which may inhibit adhesion.

Remove all cement laitance, flaking areas and traces of powder, grease, wax, paint, etc.

All cracks wider than 0.2 mm must be repaired beforehand with **Mapepoxy L** or **Mapepoxy BI-IMP**. Uneven cementitious substrates or ceramic surfaces with wide joints need to be smoothed off and repaired with suitable MAPEI products (please refer to the general catalogue) before laying **Mapeguard WP 90**. Existing floors and those tiled with ceramic, porcelain, klinker or terracotta tiles, etc., must be well bonded to the substrate and be free from substances which could affect the adhesion of the membrane, such as grease, oil, wax, paint, etc. To remove material that could affect the adhesion of the cementitious adhesive, clean the floor with suitable cleaning agents.

Gypsum based substrates such as calcium sulphate screeds, plasterboard or gypsum plaster as well as absorbent surfaces made of concrete, aerated concrete, cement mortar and cement render must be primed, before laying **Mapeguard WP 90**, with **Primer G** or **Eco Prim T** at the appropriate dilution (refer to the relevant technical data sheet for information). Non-absorbent substrates such as ceramic tiles or natural stone surfaces must be primed with **Eco Prim T** or **Eco Prim Grip**.

Laying Mapeguard WP 90

Mapeguard WP 90 must be cut to size before being bonded.

Use **Mapeguard WP 90** and a 3x3 notched trowel. Can also be applied with roller or brush. For application details please refer to the pertinent technical data sheet.

Mapeguard WP 90 must be laid over the fresh adhesive and pressed down uniformly, from the centre to the edges, in order to avoid trapping air bubbles under the waterproofing membrane.

The overlap between **Mapeguard WP 90** sheets must be minimum 5 cm wide and must be sealed with **Mapeguard WP Adhesive** applied with a 3x3 mm notched trowel. Seal all the junctions between floors and walls and between adjoining sheets with **Mapeguard ST** laid directly onto **Mapeguard WP 90** with **Mapeguard WP Adhesive**. Waterproof the internal and external corners with **Mapeguard IC** and **Mapeguard EC** bonded with **Mapeguard WP Adhesive** onto the membrane. All pipes must be waterproofed by using the special accessories **Mapeguard PC** bonded with **Mapeguard WP Adhesive** on the membrane.

LAYING TILES

After the application of the waterproofing membrane, it is possible to proceed directly with the installation of tiles. The choice of the adhesive should be made according to the type and size of the selected ceramic tile or natural stone. After installing the tiles, grout the joints with an epoxy grout (**Kerapoxy CQ**, **Kerapoxy Design**) or cementitious products (**Ultracolor Plus**, **Keracolor GG**, **Keracolor FF**, **Megafug G** and **Megafug F Plus**). The expansion/movement joints must be sealed with **Mapesil AC** or **Mapesil LM**.

If the system is applied to different surfaces, in climatic conditions and/or for final uses not mentioned above, please contact the Technical Services Department at MAPEI S.p.A.

PACKAGING

1 m x 30 m rolls.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Material:	three layered product made of polypropylene / polyethylene
Colour:	blue
Total thickness:	0.30 - 0.40 mm
Thickness of foil:	0.07 mm
Width:	100 cm
Length:	30 m
Weight:	130 - 155 g/m ²

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

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