MAPEGUARD WP 140

Elastic and alkali-resistant sealing membrane for sealing under ceramic coatings



WHERE TO USE

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

Some application examples

- **Mapeguard WP 140** 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 and walls in swimmingpool room with vapor demands above 50 S_D m.
- 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 140 is a flexible, thin-layer, waterproof isolating sheet of polypropylene/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

- High steam diffusion density.
- Waterproof.
- Crack bridging.
- High tensile strength.
- Alkali resistant.
- Non-rotting.
- High tensile bond strength adhesive connection with tile adhesives.
- High tensile bond strength with cement plaster.
- Low emission.

RECOMMENDATIONS

- Do not use **Mapeguard WP 140** if the environmental temperature is lower than +5°C.
- **Mapeguard WP 140** 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 or self-levelling smoothing compound on top after installed **Mapeguard WP 140**.

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 cemetitious 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 140**. 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 140**, with **Primer G** or **Eco Prim T Plus** 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 Plus** or **Eco Prim Grip Plus**.

Laying Mapeguard WP 140

Mapeguard WP 140 must be cut to size before being bonded.
Use **Mapeguard WP 140** and a 3x3 notched trowel. Can also be applyed with roller or brush. For application details please refer to the pertinent technical data sheet.
Mapeguard WP 140 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 140** sheets must be minimum 5 cm wide and must be sealed with **Mapeguard WP Adhesive**. Seal all the junctions between floors and walls and between adjoining sheets with **Mapeguard ST** laid directly onto **Mapeguard WP 140** with **Mapeguard WP Adhesive** or **Mapeflex MS45**.
Waterproof the internal and external corners with **Mapeguard IC** and **Mapeguard EC** bonded with **Mapeguard WP Adhesive** onto or under the membrane. All pipes must be waterproofed by using the special accessories **Mapeguard PC** or **Mapeguard WC**, bonded with **Mapeguard WP Adhesive** or **Mapeflex MS45** on the membrane.

LAYING TILES

After the application of the waterproofing membrane, wait three hours before proceeding the instalation 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 Easy 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

Mapeguard WP 140 is an article and referring to the current European regulations (Reg. 1906/2007/CE - REACH) does not require the preparation of the material safety data sheet. During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Material:	three layered product made of polypropylene/ polyethylene
Colour:	blue
Total thickness (mm):	0.30 - 0.50

Thickness of waterprofing layer (mm):	0.140
Width (cm):	100
Length (m):	30
Weight (g/m²):	170 - 190
CD Tensile strength (N/15 mm):	≥ 55
CD Elongantion at maximum (%):	≥ 50
MD Tensile strength (N/15 mm):	≥ 30
MD Elongantion at maximum (%):	≥ 50
Permeable to water to water vapour (EN ISO 12572) (100 - 75 % R.H.) (S_D) (m):	approx. 79
Permeable to water to water vapour (EN ISO 12572) (50 - 93 % R.H.) (S_D) (m):	≥ 66

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 produc installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution