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Cod.7009

MEMBRANA PW

Elastic continuous membrane, very adherent that incorporates polyurethanes in its composition, with excellent mechanical properties, applicable on concrete surfaces, tiles, roofs, etc.

- Easy to apply.
- Highly flexible, with crack bridging capability.
- Resistant to standing water. It is 100% waterproof.
- Resistance to atmospheric agents and UVA rays in all standard colours.
- Withstands cracks of up to 1 mm on horizontal surfaces.
- It maintains mechanical properties between -30 °C and 120 °C.
- Outstanding adhesion on most surfaces.
- Permeable to water vapour.



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Edición: Enero del 2022

PRODUCT DESCRIPTION

The **MEMBRANE PW** is a protective finish that forms a continuous elastic membrane with water-based polyurethane, easy to apply. Its waterproofing protection and high adhesion make it an ideal product for terraces with permeability problems, or where there are cracks or you want to provide long-lasting waterproofing protection. High resistance to atmospheric agents and can be used with fibers and glass mesh as a "sandwich", achieving better compaction. Its water-based composition makes it an environmentally friendly product.

RECOMMENDED USES

The **MEMBRANE PW** is a protective and decorative finish indoors or outdoors on:

- Elastic coating with very good mechanical properties, applicable on tiles, PU foams, aged asphalt fabric or concrete, providing excellent waterproofing and elasticity to the substrate that prevents cracking.
- Suitable for terraces, edges, chimneys, overhangs.
- Resistant to aggressive atmospheric agents and UV rays.

PROPERTIES

- Easy to apply.
- Highly flexible, with crack bridging capability.
- Resistant to standing water.
- It is 100% waterproof.
- Resistance to atmospheric agents and UVA rays in all standard colours.
- Withstands cracks of up to 1 mm on horizontal surfaces.
- It maintains mechanical properties between -30 °C and 120 °C.
- Outstanding adhesion on most surfaces.
- Permeable to water vapour.

PRESENTATION

The **MEMBRANA PW** It comes in 20 kg plastic containers in white, grey, red, black, brick and green.

STORAGE CONDITIONS

12 months from the date of manufacture, in its well-closed and non-deteriorated containers of origin, in a dry place at temperatures between +5° C and +30°

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Edition: January 2022

TECHNICAL DATA

Chemical Basis	Aliphatic polyurethane prepolymers
Aspect:	Satin
Color:	White, Grey, Red, Black, Tile & Green
Densidad:	1,20 – 1,25 k/l (depending on color)
Dilution:	Water
Dry to the touch:	2-3 hours at 20° C and 60% relative humidity
Commissioning:	The drying of this product depends on the thickness of the film and, above all, on the ambient and support humidity, as well as temperature.
Theoretical performance:	0.5 – 0.75 m ² /kg, depending on the thickness of the film applied.
Reflectance: (white)	85% according to EN 410
Tensile Strength:	1.6 N/mm ² . With fiberglass mesh reinforcement of 225 gr 4.6 N/mm ² . 380% at breakage.
Maximum Elongation:	

RECOMMENDED SYSTEMS

ROOF WATERPROOFING:

1. Application of two layers of **MEMBRANE PW** reinforced with 225gr fiberglass mesh and application of at least one other layer of **MEMBRANE PW**, up to a consumption of 2kg/m².

ROOF CLADDING:

2. Application of two layers of **MEMBRANE PW**, up to a consumption of 1kg/m².

TREATMENT ACCORDING TO THE SUPPORT

Cementitious substrates: if the concrete is new, a cure of 28 days and a minimum pull-out strength of 1.6 N/mm² are required. It is necessary to remove the surface grout by mechanical means in order to leave an open-pore texture, removing any loose particles and concrete that has little consistency. The degree of humidity of the substrate and the phenomenon of degassing of the concrete that could cause bubbles in the coating must be checked. Bituminous coatings: they must be fully adhered to the substrate, without degraded areas and it is advisable to reinforce them with fiberglass mesh. Brick: cleaning of the substrate and general reinforcement of all joints, depending on the substrate, apply a suitable primer. Paints and coatings: confirm the good condition of the coating and its total adhesion to the substrate, remove any areas with oxidation and reinforce the joints. Wooden supports: well cleaned and in good condition and properly fixed to the support. Tile and slate: the pieces must be well fixed and it is necessary to replace those that are broken or missing. If the tiles are vitrified, it would be advisable to sand and apply a coat of primer.

BRACKET REPAIR

1. If the substrate has high traces of humidity, or if it has mold or verdigris contamination, clean well and apply the "Anticrypt Paint" diluted to 50%.
2. For small repairs, making half-canes or filling sores, a putty can be made
Mixing one kilogram of waterproofing with two or three kilos of fine silica sand.
3. It can be assembled with fiberglass mesh or veil if necessary. For proper waterproofing, it is recommended to cross the first and second coats to achieve a better distribution of the product and correctly regulate the performance. In waterproofing for terraces, it is necessary that the product is applied to the walls and walls of the terrace up to a height of 15cm to improve the watertightness of the system.
4. Avoid direct exposure of the container to the sun. Do not apply during the hours of maximum sunshine.
5. Do not use non-potable, chemically contaminated, turbid or excessively calcareous water as a diluent, as this could alter the properties of the coating.

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CONDITIONS OF APPLICATION

Temperature of the support: between 8° minimum and 30° maximum.

Substrate humidity: < 6%. And the non-existence of rising humidity according to ASTM standard.

Relative humidity: 80% maximum.

Dew point: The surface temperature should be at least 3° above the dew point

HOW TO APPLY

- If a primer is necessary, apply it and let it dry for the time indicated in its technical sheet.
- Apply a first coat diluted to 10% with water at a rate of 0.75 kg/m² (non-absorbent surfaces) and 1 kg/m² (absorbent surfaces).
- Place 225 gr fiberglass mesh while the product is still fresh, making sure not to leave bubbles and overlapping about 6cm between the rolls.
- Give a second coat diluted to 10% of about 0.6 kg/m², once the previous layer is dry.
- Apply a third coat, leaving about 0.6kg/m², always respecting the drying between hands.

Repainting Time:

- Allow to dry for a minimum of 12 hours between coats, at a substrate temperature of 20° and humidity
- 50%.

Tools for the application:

- Long hair roller.
- Airless: with 0.8 nozzle, and a minimum pressure of 220 bar.

LIMITATIONS ON APPLICATION

Do not apply on damp substrates or with rising humidity.

- Always apply at room temperature and with a descending support, as bubbles may appear if it is ascending.
- The temperature during application and drying should not fall below 8° and the relative humidity of the air should not exceed 80%.
- Confirm the absence of bubbles before applying the following coats.
- You can't puddle water during the application of the different coats, collect that water with a mop and dry the surface.
- It is not recommended if the cover is going to be covered with water for long periods of time.
- Do not apply in puddled water followed by frost, or on roofs that do not have at least a 3% slope.
- The product is walkable, but it is not recommended for continuous transit, for this use, it should be coated with the PAVIFER-400 FLEX.
- Do not apply cementitious products directly to the **MEMBRANE PW**, always use an alkaline barrier, as per
- Example: quartz sand.
- Avoid direct exposure of the container to the sun. Do not apply during the hours of maximum sunshine.
- Do not use non-potable, chemically contaminated, turbid or excessively calcareous water as a diluent, as this could alter the properties of the coating.

LEGAL NOTICES

This information and, in particular, the recommendations regarding the application and end use of the product, are given in good faith, based on the current knowledge and experience of POLIUREA SYSTEMS of the products when they are correctly stored, handled and applied, in normal situations, within their useful life, in accordance with the recommendations of POLIUREA SYSTEMS. Possible differences in materials, substrates and actual conditions at the place of application are such that no warranty in terms of merchantability or fitness for particular purposes, or any other written advice or advice offered, can be inferred from the information herein, nor from any other written advice or advice offered.

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Users should be aware of and use the latest and most up-to-date version of the Product Data Sheets copies of which will be sent to anyone who requests them, or can also be obtained on the website.

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