



REFLEX M2

WATERPROOFING ELASTIC POLYUREIC MEMBRANE FOR MANUAL APPLICATIONS

IN COMPLIANCE WITH THE REQUIREMENTS OF THE 1504-2 EUROPEAN STANDARD:

Product for moisture control 2.2, resistivity increase 8.2

Features

- Easy to apply.
- Adjustable reticulation speed.
- Self-extinguishing membrane.
- Self-leveling fluid system.
- High elasticity, toughness, resistance to shear, hydrolysis, punching, abrasion, aging in general.
- Good resistance to aggressive chemicals.
- Applicable from +5°C to +35°C.
- Operating temperature from -40°C to +100°C in air.

Filed of use

- Realization of waterproofing membranes for roofs, balconies, car parks, containment tanks for water, etc.
- It can be applied on concrete, cement mortars and other materials carefully prepared with the appropriate primer.

Application

Substrate preparation

Substrate preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and it must have a bond strength of at least 1,5 MPa. In any case it is necessary, depending on the type of surface, to make a preparation of the flooring by shot peening, smoothing or sanding.

Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.

Primer

Apply one 200-300 g/m² coat of **ITALPOX 54** or one 150-200 g/m² coat of **PRIMER 60**.

On ferrous materials, galvanized steel, prepainted aluminium, apply 150 g/m² of **FLOORFIX 44**.

Overcoat **POLIFLEX 91/N** after 24 hours if **ITALPOX 54** is used, or after 1-3 hours if **PRIMER 60** is used.

Product preparation

Two-component product to be mixed at the moment of use.

Mix component A with component B using low rpm.

It is possible to increase the reticulation speed of the product by adding **ACCELERANTE F** when the components have already been mixed.

Using **ACCELERANTE F** at 2 % (calculated on the mixed components) it is possible to obtain a surface walkable with care in 3-3,5 hours (at 25°C).

Application

The application must be carried out with a spatula, brush or airless equipment, especially on large surfaces.

In case of airless spray, use 0,021-0,025 inch nozzles, 200 bar pressure dilute the product with a maximum of 3 % of **DILUENTE PU1**.

The product can be applied in a single coat or with several coats depending on the desired thickness and application system.

The typical thickness of 2 mm is equal to a material consumption of about 2.60 kg/m².

If the membrane is directly exposed to UV rays, it is necessary to apply a coat of **ITALPAINT 67** or **ITALPAINT 10**.

Application on screeds as a waterproofing membrane under tiles

Immediately after applying REFLEX M2, apply a coat of PRIMER 100 and proceed with the broadcast of 0.5 mm quartz to give the surface a grip. For the subsequent bonding of the ceramic coating, we recommend the use of a class C2TE S1 or two-component adhesive with high deformability.

Tools cleaning

The tools must be cleaned with **DILUENTE PU1** after use.

Technical data

Colour	Grey similar to RAL 7032	-
Density	1,38 ± 0,05 kg/l	EN ISO 2811-1
Viscosity at 23°C	3500 ± 1000 mPa · s	EN ISO 2555
Pot life at 25°C (414 g)	60 minutes	EN ISO 9514
Mixing ratio		
Parts by weight of comp. A	100	-
Parts by weight of comp. B	100	

Theoretical consumption <i>Horizontally</i>	1,40 kg/m ² /mm	-
Non-volatile-matter content <i>By weight</i>	97 ± 1 %	EN ISO 3251
Shore A hardness	75-78	EN ISO 868
Shore D hardness	25	EN ISO 868
Elongation at break	600 %	EN 12311-2
Tensile strength	> 9 MPa	EN 12311-2
Bond strength	> 1,0 MPa	EN 1542
Water vapour permeability	s _D < 5 m	EN ISO 7783-2
Liquid water permeability	w < 0,1 kg/m ² x h ^{0.5}	EN 1062-3

Crack bridging <i>Method A, static</i> <i>Method B, dynamic</i>	A5 (23°C) > B4.1 (23°C)	EN 1062-7
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Curing

At 25°C, 50 % R.H. - Walkable with care - Complete curing	3-5 hours 7 days
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Storage

The product in the original sealed packaging, stored in a dry and sheltered place at a temperature comprised between +5°C and +35°C, is preserved for 12 months.

Safety

In the application of this product it is advisable to use goggles, rubber gloves and all the PPE required by the laws on the use of chemical substances.

For all the additional information consult the material safety data sheet of the product.

		
PERFORMANCES IN COMPLIANCE WITH CERTIFICATION CE EN 1504-2		
Product type 4116		DoP 149
Characteristics	Product performance	Test Method
Water vapour permeability	Class I	EN ISO 7783-2
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$	EN ISO 1062-3
Bond strength by pull-off	$> 1,0 \text{ N/mm}^2$	EN 1542
Crack bridging	A5 (23°C) > B4.1 (23°C)	EN 1062-7
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	EN 13501-1

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