STARFLEX MONO 100

cod. 6828 M100

ONE COMPONENT MOISTURE CURING LIQUID POLYURETHANE MEMBRANE

In compliance with the requirements of the 1504-2 european standard: Product for the protection against the risk of penetration 1.3, moisture control 2.2, resistivity increase 8.2 Easy to apply with roller, brush, spray.

- **Crack bridging ability.**
- **Excellent elasticity, even at low temperatures.**
- **Thixotropic version available.**
- **External fire performance Broof t4 version available.**
- **Application temperature from +5°C to +35°C, substrate humidity < 4 %, R.H. between 35 and 80 %, above the dew point by at least 3°C. Operating temperature from -40°C to +80°C in air.**

Waterproofing systems with or without reinforcement for: Roofs, terraces and balconies.

- Tanks, channels, pipelines.
- Renewing old membranes.
- Parking and sport areas.
- Wet areas.
- Bridge decks, overpasses and podiums.

PRODUCT PREPARATION

One-component product ready to use after steering carefully.
At this stage the product can be thinned with 5-10% by weight of DILUENTE 15 or can be added with ACCELERANTE 1 (in order to decrease curing time).
If necessary, it is possible to dilute with 5% by weight of Diluent 15. Do not use thinners containing reactive groups such as alcohols. Inappropriate thinners cause the product does not harden.
To increase the hardening speed, use a maximum of 3 - 4% of ACCELLERANTE 1. 850 g of ACCELLERANTE in 25 kg of product. Do not exceed the indicated quantity of ACCELLERANTE 1, otherwise the product will not harden.

SUBSTRATE PREPARATION

Substrates to be treated must be sound, clean and free from contaminations and debris by using high pressure washing sprays.
Substrate preparation is fundamental, thus the substrate 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 substrate, to make a preparation of the flooring by sandblasting, milling, smoothing or sanding.
Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.
Application on bituminous membrane: remove all deformation. Some repair can be done with membrane itself. Possible repairs can be done with polyurethane foam.
STARFLEX MONO 100 adheres directly on concrete. For better adhesion use PRIMER 0230. For substrates with pores that are more difficult to close, PRIMER 0260 can be used in more than one coat and interposing a light scatter of quartz.

If the substrate is damp or subject to back pressure, DUROGLASS FU BIANCO TIX or DUROGLASS FU RAPID must be applied in one or two coats, according to their technical data sheet.
For the repair of existing waterproofing or on old roofing felt,100 g/m^2 of PRIMER 0230 must be previously applied. As an alternative primer, STARCEMENT 5/A can be used.

PRODUCT APPLICATION

STARFLEX MONO 100 can be applied by brush, squeegee, roller or airless spray (pressure 130-150 bar and nozzle 0,031"-0,035").
Roller application is necessary for reinforced systems.

Non reinforced system: apply two coats of product, with a consumption of 0,6-0,8 Kg/m^2 for the first layer and 0,6-0,9 Kg/m^2 for the second. (over-application time from 6 to 48 hours maximum.)
If the substrate is horizontal or slightly slopped, the maximum amount of product which can be applied without reinforcement is 0,800 Kg/m^2 per layer.
Reinforced system: use STARTEX NW and impregnate it with two layers of 1,1 Kg/m^2 each.
After minimum 24 hours and not later than 48 hours, a protective colored coating can be applied on the waterproofing layer: POLISTAR E/P with the consumption of 100 – 150 g/m^2 or STARFLEX MONO TOP with a consumption of 150 – 400 g/m^2.

Minimum total consumption: 2,1 kg/m^2.

Clean the tools with DILUENTE 15 after every use.

Technical Data

Color	Grey, White, other requested colors
Specific weight UNI EN ISO 2811-1	1,59± 0,05 g/ml
Viscosity at 20°C UNI EN ISO 2555	7.500 ± 1.500 mPa.s
Solid content EN ISO 3251	90±2% in weight 82±1% in volume
Chemical resistance	Good resistance against acidic and alkali solutions, detergents, oils and sea water
Theoretical consumption	2.000 – 2.500 g/m_2
Theoretical thickness	1.000 – 2.250 µm
Curing at 22°C, 50% R.H.	- tack free 7-9 hours - insensitive to rain 7 hours - overapplication 24 hours - completely cured 10 days
The product is moisture curing. The rapidity of hardening is strongly influenced by relative environmental humidity. The speed of reaching the "tack free" condition depends on the amount of ACCELERANT 1:	
Permeability to carbon dioxide EN 1062-6	Sd > 50 m
Permeability to water vapour EN ISO 7783-2	Sd < 5 m
Capillary absorption and permeability to water EN ISO 1062-3	< 0,1 kg/m_2 · $h_{0.5}$
Adhesion to concrete (traction) EN 1542	> 4,0 MPa
Crack bridging EN 1062-7	A method - static: A5 (23° C) B method - dinamic: B4.2 (23° C)
Wear resistance EN ISO 5470-1	Mole H22- 1000 g, 1000 giri < 350 mg
Shock resistance EN ISO 6272	4Nm
Adhesion to green concrete EN 13578	No swelling, no cracks, no spalling
UV Resistance (INVE 2000) P-500W lamp 50 hours at 70°C	Excellent

Tensile strength UNI EN 12311-2	> 4 M Pa

Elongation at failure UNI EN 12311-2	> 450 %
Shore A Hardness EN ISO 868	70
Liquid applied waterproofing products to be used under the ceramic tiles, glued with adhesives **Initial membership Adhesione after immersion in water** **UNI EN 14891**	> 0,5 MPa > 0,5 MPa
Storage	12 months from date of production if stored unopened sealed pack- aging, in a dry plac be- tween +5°C and +35°C.

CE

1305		
MPM Srl - Via Adda, 15- 20090 Opera (MI)		
12		
1305-CPR-1222		
EN 1504-2	**DoP 029**	**Product type 6828**
Protection against ingress 1.3 (C) , Moisture control 2.2(C); Physical resistance 5 1.(C); Increasing resistivity 8.2 (C).		
CO2 permeability	sD > 50 m	
Water vapour permeability	Class I	
Liquid water permeability	w < 0,1 kg/m2 x h0.5	
Bond strength by pull-off	> 2,0 N/mm2	
Crack bridging	A5 (23°C) > B4.1 (23°C)	
Impact resistance	Class I	
Abrasion resistance	< 3000 mg	
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	
Exposition to artificial atmospheric agents	No blistering, no cracking, no flaking	