

Product

STARFLEX MONO

cod. 6828 M100



ONE COMPONENT MOISTURE CURING LIQUID POLYURETHANE MEMBRANE

Features

- Easy to apply by means of brush, roller, or airless spray.
- High adhesion.
- High abrasion resistance.
- High elasticity and tensile strength.
- Water vapor permeable.
- Crack-bridging ability.
- Resistant to immersion into water.
- Ideal for outdoor application. Can be overcoated to improve U.V. protection.
- Substrate application temperature range: from + 5 ° C to + 35 ° C (R.H. < 85%).
- Operating temperatures from -30°C to +80°C in air, (+200°C for short time).

Application fields

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.

Application

PRODUCT PREPARATION

One-component product ready to use after mixing 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).

SUBSTRATE PREPARATION

Substrates to be treated must be sound, clean and free from contaminations and debris by using high pressure washing sprays.

STARFLEX MONO adheres directly on concrete. For better adhesion and to avoid support blows, use **PRIMER 0230** or **DUROGLASS FF4416**. For substrates with pores that are more difficult to close, we can use the **PRIMER 0260** in more than one coat, and interposing a light scatter of quartz. Very humid substrates can be treated with specific DPM primers such as **DUROGLASS FU BIANCO TIX**.

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/m² of **PRIMER 0230** must be previously applied.

As an alternative primer, **STARCEMENT 5/A** can be used.

PRODUCT APPLICATION

STARFLEX MONO 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/m² for the first layer and 0,6-0,9 Kg/m² 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/m² per layer.

Reinforced system: use **STARTEX NW** and impregnate it with two layers of 1,1 Kg/m² 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/m² or **STARFLEX MONO TOP** with a consumption of 150 – 400 g/m².


Minimum total consumption: 2,1 kh/m² .

Clean the tools with DILUENTE 15 after every use.

Technical Data

Color	Grey, White, other requested colors
Specific weight UNI EN ISO 2811-1	1,57± 0,07 g/ml
Viscosity at 20°C UNI EN ISO 2555	5.000 ± 1.000 mPa.s
Solid content EN ISO 3251	90±1% 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.	- dry to the touch 6-8 hours - insensitive to rain 4 hours - over-application 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 "dry to the touch" condition depends on the amount of ACCELERANT 1:	

Hardening at 20°C, 35 % R.H. +3 % ACCELERANTE 1 +5 % ACCELERANTE 1 +10 % ACCELERANTE 1	 4 hours 3 hours 2 hours
Do not exceed the indicated amount of ACCELERANTE 1, otherwise the product will not harden.	
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
Tensile strength UNI EN 12311-2	> 4 M Pa
Elongation at failure UNI EN 12311-2	> 400 %
Shore A Hardness EN ISO 868	70
Liquid applied water-proofing 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 properly in original, unopened sealed packaging, in a dry place at temperatures between +5°C and +35°C.

		
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MPM Srl - Via Adda, 15- 20090 Opera (MI)		
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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).		
CO ₂ permeability	s _D > 50 m	
Water vapour permeability	Class I	
Liquid water permeability	w < 0,1 kg/m ² x h ^{0.5}	
Bond strength by pull-off	> 2,0 N/mm ²	
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 _{FL}	
Exposition to artificial atmospheric agents	No blistering, no cracking, no flaking	

I dati e le prescrizioni riportate nella presente scheda, basati sulle migliori esperienze pratiche e di laboratorio, sono da ritenersi in ogni caso indicativi. Considerate le diverse condizioni di impiego, e l'intervento di fattori indipendenti da MPM (supporto, condizioni ambientali, direzione tecnica di posa, ecc.) chi intenda farne uso è tenuto a stabilire se il prodotto sia adatto o meno all'impiego. Il ns. obbligo di garanzia si limita alla qualità e costanza del prodotto finito per i dati sopra riportati, solo per schede tecniche corredate di timbro e controfirma da parte del personale delegato della ns. sede. Il cliente, inoltre, è tenuto a verificare che tali valori siano validi per la partita di prodotto di suo interesse e non siano superati e/sostituiti da edizioni successive e/o nuove formulazioni. I dati contenuti possono variare in ogni momento senza obbligo di preavviso da parte di MPM