

Product

STARFLEX ULTRA

cod. 6842 M100



ONE COMPONENT THIXOTROPIC MOISTURE CURING LIQUID POLYUREA MEMBRANE

Features

- Easy to apply by brush, roller, or airless spray.
- Suitable for vertical applications.
- High adhesion.
- High abrasion resistance.
- High elasticity and high tensile strength and resistance.
- Crack-bridging.
- Resistant to immersion into water.
- Water vapor permeable.
- Certified Broof T4.
- Ideal for outdoor application. Can be over coated 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 forshort time).

Application fields

Waterproofing systems with or without reinforcement for:

- Roofs, terraces and balconies.
- Bridge decks, overpasses and podiums.
- Industrial roofing.
- Renewing old membranes.

PRODUCT PREPARATION

One-component product ready to use after steering carefully.

Application

SUBSTRATE PREPARATION

Substrates to be treated must be sound, clean and free from contaminations and debris.

STARFLEX ULTRA adheres directly on concrete. On certain substrates for better adhesion and to avoid pin holes, use PRIMER 0230. For very porous substrates use PRIMER 0260 eventually adding 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 ULTRA can be applied by roller or brush or airless spray (pressure 250-300 bar and nozzle 0,02"-0,03").

Roller application is necessary for reinforced systems.

Non reinforced system: apply two coats of product, with a consumption of 1-1,2 Kg/m² for layer. (over-application time from 6 to 48 hours maximum)
On vertical substrate the maximum amount of product which can be applied without reinforcement is 2,0 Kg/m² per layer.

In case of localized repairs, apply a layer of STARFLEX ULTRA with a consumption of 1,5 kg/m². Local patch work can be done with self-adhesive membranes or other compatible systems.

Reinforced system:

1. Apply a first coat of STARTEX ULTRA with a consumption of 1,5 Kg/m² and embed on the fresh layer the reinforcement polyester fleece (60 g/m²). On the fresh (wet on wet) apply a second coat of 1-1,5 Kg/m². The second coat can be applied also next day as soon as curing allows the system to be walked over.
2. Alternatively, the reinforcement material can be changed with a glass matt STARTEX 225 GM


After at least 24 hours and not later than 48 hours, STARFLEX MONO TOP a protective colored UV resistant top coat can be applied on the waterproofing layer: with a consumption of 150-400 g/ m².

Clean the tools with DILUENTE 15 after every use.

Technical Data

Color	Grey
Specific weight UNI EN ISO 2811-1	1,46 ± 0,03 g/ml
Viscosity at 20°C UNI EN ISO 2555	25.000 ± 5.000 mPa.s
Solid content EN ISO 3251	83±1% by volume, 87% by weight

Theoretical consumption	2.000 -2500 g/m ²
Theoretical Thickness	1000-1250 µm
Hardening at 22°C, 50% R.H.	- dry to the touch 6-8 hours - insensitive to rain 6 hours - over-application 24 hours - completely cured 10 days
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	> 6 MPa
Crack bridging ability EN 1062-7	A method - static: A5 (23) B method - dinamic: B4.2 (23)
Wear resistance EN ISO 5470-1	Grinder H22- 1000 g, at 1000 rpm < 350 mg
Shock resistance EN ISO 6272	4Nm
Adhesion to wet concreteEN 13578	No swelling, no cracks, no spalling
Tensile strength UNI EN 12311-2	> 6 MPa
Elongation at failure UNI EN 12311-2	> 600 %
Hardness shore A EN ISO 868	70
Fire Certifications	BROOF T4
Storage	12 months from date of production if stored properly in original, unopened sealed pack- aging, in a dry place at temperatures be- tween +5°C and +35°C.

		
1305		
MPM Srl - Via Adda, 15- 20090 Opera (MI)		
12		
1305-CPR-1222		
EN 1504-2	DoP 048	Product type 6847
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/m ² x h0,5	
Bond strength by pull-off	> 2,0 N/mm ²	
Crack bridging	A5 (23°C) > B4.2 (23°C)	
Impact resistance	Class I	
Abrasion resistance	< 3000 mg	
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	FFL	
Exposition to artificial atmospheric agents	No blistering, no cracking, no flaking	

The data and prescriptions contained in this schedule, based on the best practical and laboratory experiences, are to be considered in any case indicative. Given the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical direction of application, etc.) those intending to use the product are held to establish whether it is suitable or not for the intended use. Our guarantee extends only to the quality and consistency of the finished product with the data given above, and only for technical schedules bearing the stamp and counter signature of the personnel delegated by our offices. The customer is further held to verify that these values are valid for the product batch concerning him and have not be updated and/or substituted by subsequent issues and/or new formulations. The data contained may vary at any moment without any obligation on the part of MPM to give prior notice