STARFLEX HR-M

WATERPROOFING ELASTIC POLYUREA MEMBRANE FOR MANUAL EXTERNAL APPLICATIONS

EN 1504-2 | LOW-SOLVENT CONTENT | HIGH CRACK BRIDGING | LOAD BEARING

CHARACTERISTICS

Self-levelling fluid system.
Simplicity of application.
Adjustable cross-linking **speed**.
Self-extinguishing membrane.
High **elasticity**, **toughness**, **shear resistance to hydrolysis**, **punching,** abrasion, ageing in general.
Good resistance to **aggressive chemicals**.
Thixotropic version available on request.

APPLICATION TEMPERATURE

Applicable **FROM +5° C to +35° C**.

OPERATING TEMPERATURE

Operating temperature **from -40° C to +100° C** in air.

APPLICATION FIELDS

- Cladding for heavily trafficked car parks and walkways.
- Waterproofing of new balconies and terraces or on old concrete and tiled floors.

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SUBSTRATE PREPARATION

- The treated surfaces must be clean, solid, and free of foreign particles like oil and dust.
- The surface resistance to tearing of the cement substrate, after adequate mechanical preparation, must be greater than 1,5 MPa, measured using suitable instruments.
- In the case of ceramic substrates or old resinous coatings, their correct adhesion to the substrate and absence of pollutants must be checked after adequate mechanical preparation.
- Damaged **joints**, **holes** and other **irregularities** must be adequately levelled and repaired with **STARCEMENT 385** type epoxy grout, or **DUROGLASS P1/2** type epoxy mortar suitably loaded with quartz or thickener **ADDENSANTE NT2**.

On green concrete substrates: first use **DUROGLASS FU BIANCO TIX** or **DUROGLASS FU RAPID**, referring to the respective technical data sheets for application methods.

On dry concrete substrate: first use epoxy primer such as **DUROGLASS P2 PRIMER** or **DUROGLASS P1/2**, referring to the respective technical data sheets for application methods.

PRODUCT PREPARATION

Two-component product to be mixed thoroughly before use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B with component A and mix until completely homogenized.

DILUTION AND COLOUR

It is possible to increase the cross-linking speed of the product by adding the accelerator **ACCELERANTE M**, after having mixed the product (A+B).

The product can be diluted, based on the type of application, with a maximum of 3% thinner **DILUENTE 6**.

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PRODUCT APPLICATION

STARFLEX HR-M can be applied in one or more coats by:
- Trowel

The approximate consumption of **STARFLEX HR-M** is 2,2-2,5 kg/m² for an indicative thickness of 2 mm. The thixotropic version can be applied vertically up to 1,0 kg/m² per coat until the desired thickness is reached.

By dosing the accelerant **ACCELERANTE M** from 2-5% (calculated on the catalysed product) it is possible to obtain the treadable surface with caution in 3/3,5 hours (at +25° C).

APPLICATION ON SCREEDS AS A WATERPROOFING MEMBRANE UNDER THE TILES
After applying **STARFLEX HR-M**, apply a coat of **PRIMER 0130** and proceed with seeding with a 0.5 mm quartz broadcast to give the surface a bonding grip. For subsequent gluing of the ceramic covering, we recommend the use of CSTE S1 class adhesive or two-component highly deformable adhesive.

OVER APPLICATION

If the membrane is directly exposed to UV rays, it is necessary to apply a coat of polyurethane finish such as **POLISTAR E/P, STARFLEX MONO TOP S**.

WARNINGS AND PRECAUTIONS

- The pot-life, therefore also the workability time of the product, decreases as the quantity of accelerator increases.
- When the temperature of the substrate drops below +12° C, we recommend the use of **ACCELERANTE M** in a percentage equal to 2-5% (calculated on the catalysed product).

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Clean the tools thoroughly after use with thinner **DILUENTE 6**.

For more information regarding the precautions for use, please refer to the safety data sheet.

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TECHNICAL DATA		
Colour		Type 7032
Specific weight*	UNI EN ISO 2811-1	1.38 ± 0.05 g/lm
Viscosity at +20° C	EN ISO 2555	3500 ± 1000 mPa·s standard 35000 ± 5000 mPa·s thixotropic
Non-volatile substances	EN ISO 3251	97 ± 1 %
Mix ratio **Parts by weight of comp. A** **Parts by weight of comp. B**		 100 100
Pot life at +25° C (414 g)	EN ISO 9514	60 minutes
Theoretical consumption		1,40 kg/m^2/mm
Curing at +25° C, 50% R.H.		Walkable with caution: 3-5 hours Fully cured: 7 days
Shore A hardness	EN ISO 868	75-78
Shore D hardness	EN ISO 868	25
Elongation to breakage	EN 12311-2	> 500%
Tensile strength	EN 12311-2	> 9 MPa
Peel strength	UNI EN 12310-2	40 N/mm - 60 N
Adhesion to concrete	EN 1542	> 1,0 MPa
Permeability to water vapour	EN ISO 7783-2	Sd < 5 m
Liquid water permeability	EN 1062-3	w < 0.1 kg/m^{2}h^{0,5}
Crack resistance **Method A, static** **Method B, dynamic**	EN 1062-7	 A5 (+23° C) B4.1 (+23° C)
Storage		The product in its original sealed packaging kept in a dry and protected place, at temperatures between +5° C and +35° C keeps for 12 months.