Product

STARFLEX HR-S

Cod. 6203-RAL
9303-0000

PURE ELASTIC POLYUREA SYSTEM, WITH MEDIUM MODULE OF ELASTICITY, SOLVENT FREE

Characteristics

- **Meets the requirements of standard 1504-2 for coatings: product for humidity control 2.2 (C), physical resistance 5.1 (C), chemical resistance 6.1 (C), increase in resistivity 8.2 (C) . UV resistant.**
- **Fast hardening and hig resistance.**
- **Applicable in vertical and ceiling.**
- **Excellent elasticity, tenacity, wear resistance and crack-bridging characteristics.**
- **Waterproofing and good resistance to chemical agents.**
- **Applicable from -15 ° C to + 45 ° C with dewpoint > 3 ° C (substrate).**
- **Operating temperatures from -45 ° C to + 90 ° C in the air.**

Application fields

- Waterproofing of underground structures (foundations, masonry walls, hanging works, etc.).
- Waterproofing of new roofs.
- Restoring the waterproofing of old coatings.
- Waterproofing of roofs insulated with polyurethane foam.

Application

1) **SUBSTRATE PREPARATION**

The substrate to be treated must be healthy and free from pollution of foreign substances.
For concrete substrate, after having carried out the cleaning operations, DUROGLASS P3 PRIMER is applied as primer, keep in mind to broadcast the quartz with suitable grain size on the substrate.
Where there is the possibility of crater formation on the substrate, apply the primer to shave the substrate (even several times) and loading it with quartz 0.1-0.3 in a ratio of 1: 0.3 or 1: 0.5 in weight, then saturate it with quartz.
DUROGLASS P3 PRIMER can be used for slightly damp substrate.
In the case of damp or counter-pressure substrates, apply one or two coats of DUROGLASS FU BIANCO TIX or DUROGLASS FU RAPID before the DUROGLASS P3 PRIMER as reported in the relative technical data sheets.

2) **PRODUCT APPLICATION**

The product applied by airless pumping spray equipment with heater for two components products, equipped with a mixing gun for polyurea systems with mechanical chamber cleaning. The equipment must also

include pre-heating the separate components at temperatures of at least 70-80 ° C. The best results are obtained with pressures of at least 190 - 220 Bar and the temperatures of 65-70 ° C for polyamines and 70-80 ° C for the prepolymer isocyanate.
Once the substrate has been prepared and the extra quartz is removed, spray the STARFLEX HR-S at a rate of 2.5 - 4.0 kg / m².
On old bituminous waterproofing sheet, apply the appropriately diluted STARCEMENT 5 / A as primer (see technical data sheet).

Proceed by broadcast of quartz on the wet substrate and after 12/24 hours remove any extra quartz, then proceed with the application of the STARFLEX HR-S.
On the other types of waterproofing membranes, it is possible to proceed by applying as a primer the DUROGLASS FF 4416 with the sprinkling of quartz (however it is advisable to proceed after checks).

3) **TOP COAT**

To increase the resistance to sun exposure, apply 150 g / m² POLISTAR E / P within 24 hours as described in the relative technical data sheet.
The un-protected membrane, exposed to light, could turn yellow, change the color and loss the glosity, without changing the protective properties.

Technical data

Color	RAL colors (grey/red/green)
Specific weight **UNI EN ISO 2811-1**	1,08 ± 0,03 Kg/l
Viscosity 20°C **UNI EN ISO 2555**	Component A 800 ± 100 mPa.s Component B 1.200 ± 250 mPa.s
Pot life*	10-12 seconds
Mixing ratio	1: 1 in volume 1: 1 in weight
Theoretical consumption	2,5-4,0 Kg/m²
Theoretical thickness	2,3-3,7 mm
Dry contents **UNI EN ISO 3251**	> 99,9 %
Hardening at 22°C, 50% U.R.	- Dry to touch 10 minutes - Walkable 90 minutes
Concrete adhision **UNI EN 1542**	> 3,0 MPa
Determination of water vapor transmission **UNI EN ISO 7783-1**	μ > 1500
Strike resistance **UNI EN ISO 6272**	Without break (hight of falling is 2 m)
Wear resistance **UNI EN ISO 5470-1**	< 40 mg (Mol H22 1000 g 1000 round)
Thermal shock resistance **UNI EN 13687-05**	> 2,2 MPa

Elongation at break UNI EN 12311-2	> 500 %
Tensile strength UNI EN 12311-2	> 12 MPa
Hardness shore ASTM 2240	90 A 40 D
Fire resistance certificate	B ROOF T4
Storage	The product in the original sealed packages kept in a dry and sheltered place at temperatures between + 5 ° C and + 35 ° C can be kept for 6 months.

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MPM Srl - Via Adda, 15- 20090 Opera (MI)

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EN 1504-2

product for surface protection - coating - protection against the risks of penetration, humidity control, physical resistance, chemical resistance, increase in resistivity

Abrasion resistance	<3000 mg
Carbon dioxide permeability	Sd > 50 m
Water vapor permeability	Class I
Capillary absorption, water permeability	W < 0,1 kg/m² $h^{0,5}$
Resistance to severe chemical attacks	CR10, CR11, CR12, CR14
	Class I and Class II
Bond strength	> 2 N/mm²
Impact resistance	Class III
Thermal shock resistance	> 2 N/mm²
Crack bridging	A5(23°C) (static)
	> Class B4.1(dynamic)