



materiali protettivi milano srl

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INDUSTRIAL ROOFING – WARM – EXPOSED – BITUMINOUS MEMBRANE WITH SOLAR PANELS

SPECIFIC WATERPROOFING SYSTEM OF INDUSTRIAL AND CIVIL ROOFS WITH A BITUMINOUS SUBSTRATE

SUBSTRATE PREPARATION SYSTEM

- Substrate to be treated must be free from debris and dust. Clean the substrate by either water jetting or air blowing and/or brushing.

PRIMERS:

- **PRIMER 0230**, moisture curing polyurethane, to be applied by means of a roller or brush or airless spraying device (with consumption of 100-150 g/m²). Over application time must be between 60 minutes and 16 hours according to environmental conditions.

A rapid version called **PRIMER 0230 R** is available, allowing rapid over application time also in cold conditions (0°C) within 10 minutes. This version also helps removing traces of residual humidity from non absorbing substrates (morning dew). Does not help with water ponding or ice.

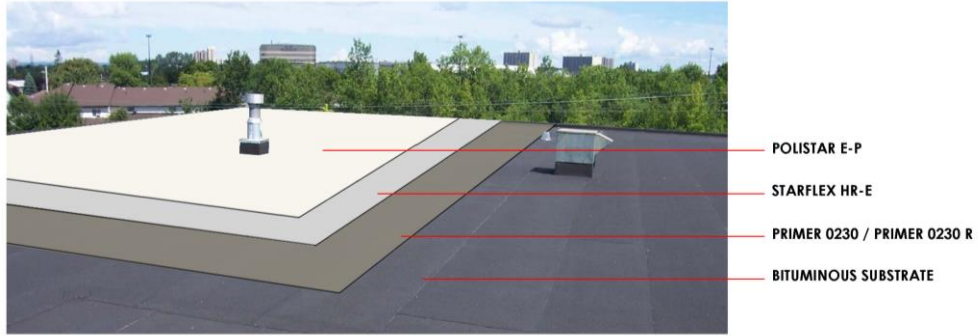
- **STARCEMENT 5/A**, water based epoxy primer to be applied by means of a roller, or brush or airless spraying device (with consumption of 100-150 g/m²). Over application time must be between 60 minutes and 16 hours according to environmental conditions.

WATERPROOFING MEMBRANES:

- **STARFLEX HR-E**, hybrid elastomeric polyurea system formulated with aromatic isocyanates and special diamines, free from plasticants and solvents, or **STARFLEX HR-S**, fast hardening with a very fast attainment of the final mechanical characteristics, high resistance to the hydrolysis and the abrasion.

The products can be applied exclusively by spraying devices with two-component airless pumping units, equipped with a mixing gun, with a theoretical consumption of 2,2-4,4 Kg/m².

The necessary equipment must also include pre-heating the separate components at temperatures of at least 65-75 ° C. The best results are obtained with pressures of at least 190 -210 Bar, material temperatures of 75 ° C with heated feeding pipes for the spray gun.



TOP COAT:

- POLISTAR E/P**, two component elastic polyurethane based UV- resistant, anti-skid and wear resistant protective coating, one component elastic aliphatic polyurea based top coat for manual application at a rate of 0,15-0,25 kg/m² per coat. The product for anti-slip can be added /charged with 0,1-0,3 mm quartz and or be broadcasted with 0,1- 0,5 quartz on the first of the 2 top coats. When 2 coats must be applied do not let more than 48 hours between the coats.

Performance indicators	S C G H E
Elastic	▲▲▲▲
Wear resistance	▲▲▲▲▲
Thickness	▲▲▲▲
Durability	▲▲▲▲▲

S = Satisfactory // C = Comparable // G = Good // H = High // E = Excellent

- POLISTAR E/2**, 2k polyurethane based uv- resistant, anti-skid and wear resistant protective coating, with a consumption of 0,150 Kg/m².

Performance indicators	S C G H E
Elastic	▲▲▲
Wear resistance	▲▲▲
Thickness	▲▲▲
Durability	▲▲▲▲

- S = Satisfactory // C = Comparable // G = Good // H = High // E = Excellent**
- The over coating has to be applied within 3-4 hours maximum after the application of **STARFLEX HR-E/STARFLEX HR-S**.



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FEATURES

- High elasticity and abrasion resistance, wear resistance with the ability of crack-bridging.
- Waterproofing, excellent chemical resistance and corrosion resistance.
- Substrate application temperature range: from -20°C a +40°C.
- Operating temperatures from -30°C to +100°C.

layer		Consumption Kg/mq	thickness DFT mm	Coverage cost g/micron	
Primer	1	STARCEMENT S/A	0,10	0,04	2,33
Primer	1	PRIMER 0230/0230R	0,15	0,06	2,50
waterproofing	2	STARFLEX HR-E	3,00	2,63	1,14
waterproofing	2	STARFLEX HR-S	2,20	1,93	1,14
top coat	3	POLISTAR E/P	0,30	0,13	2,23
				2,81	

Over-application (h)
1
dry to the touch 5 minutes
Can be walked on 20 minutes

Features
Rapid
Applicable also in vertical and ceiling Excellent weathering resistance
Operating temperature
-35°C 85°C

Continuous waterproofing membranes, concrete surfaces protection
 Ideal for Roofs, Renewing old membranes.

