

ROOFS & BALCONIES - COLD - EXPOSED - BITUMINOUS MEMBRANE

LIQUID WATERPROOFING SYSTEM FOR ROOFS, TERRACES AND BALCONIES, RENEWING OLD MEMBRANES

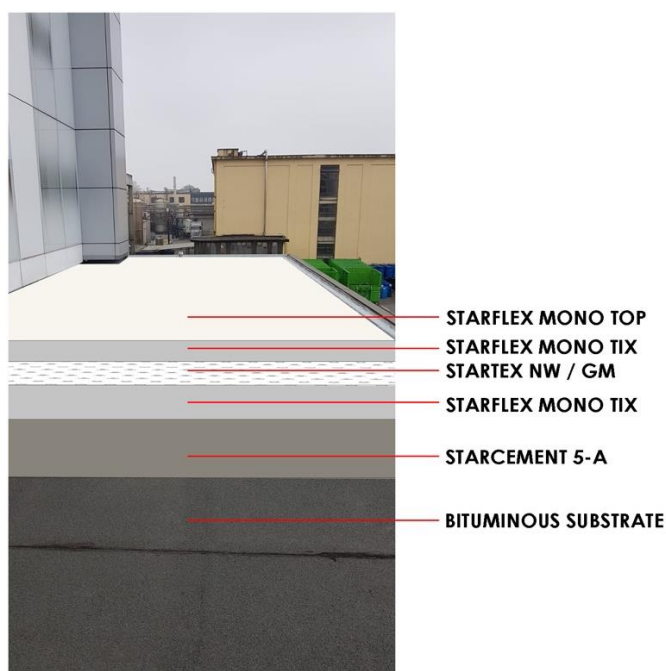
SUBSTRATE PREPARATION

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

SYSTEM

PRIMERS:

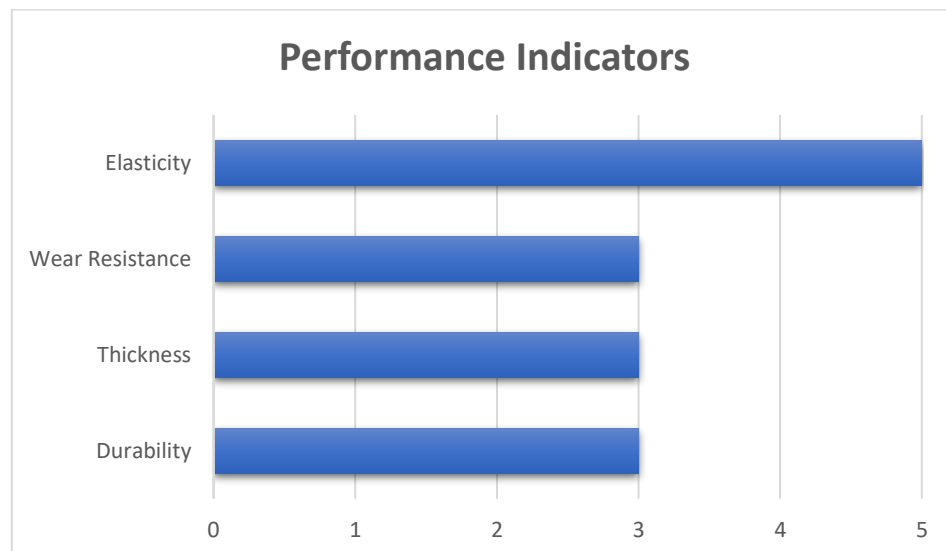
- **STARCEMENT 5/A**, water-based epoxy primer to be applied by means of a roller or brush or airless spraying device (with a consumption of 100-150 g/m² of 1:1 diluted product with water). Over application time must be between 60 minutes and 16 hours according to environmental conditions.
- **PRIMER 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.



WATERPROOFING MEMBRANES:

- **STARFLEX MONO** one component moisture curing liquid polyurethane membrane. Application can be done by roller or brush or airless, spray 45:1 or 60:1 (pressure 130-150 bar and nozzle 0,021" or adjustable). Roller application is necessary for reinforced systems.

Consumption is suggested at the maximum amount of 0,7 Kg/m² per layer without reinforcement, and 1,0 Kg/m² reinforced, even though thicker layers are achievable.

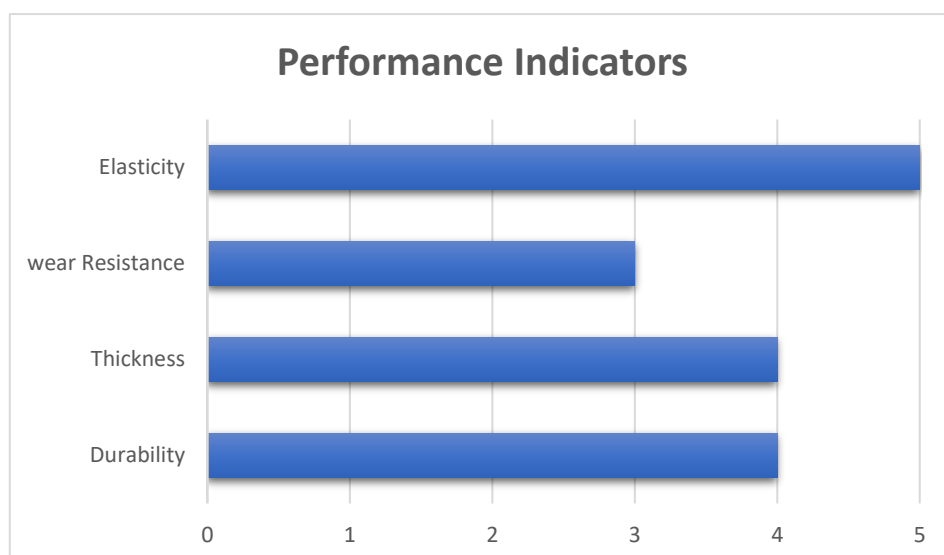


1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

- **STARFLEX MONO TIX**, (available also in the fire resistant grade, BROOF T4), one component **thixotropic** moisture curing liquid elastic polyurethane membrane, ready to use after mixing carefully with mixer at low r.p.m. Application can be done by roller or brush or airless, spray 45:1 or 60:1 (pressure 130-150 bar and nozzle 0,021" or adjustable). Roller application is necessary for reinforced systems.

Consumption, even on vertical substrates is suggested at the maximum amount of 2,5 Kg/m² per layer (without reinforcement), even though thicker layers are achievable. Roller application is necessary for reinforced systems.

Temperature of the product should be not lower than 20-22° C for spraying (best to check with a glass thermometer by dipping) otherwise the product could be too viscous. In cold environments mixing the product for 5 mins with a mixer can help rising the temperature of the product considerably.



1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

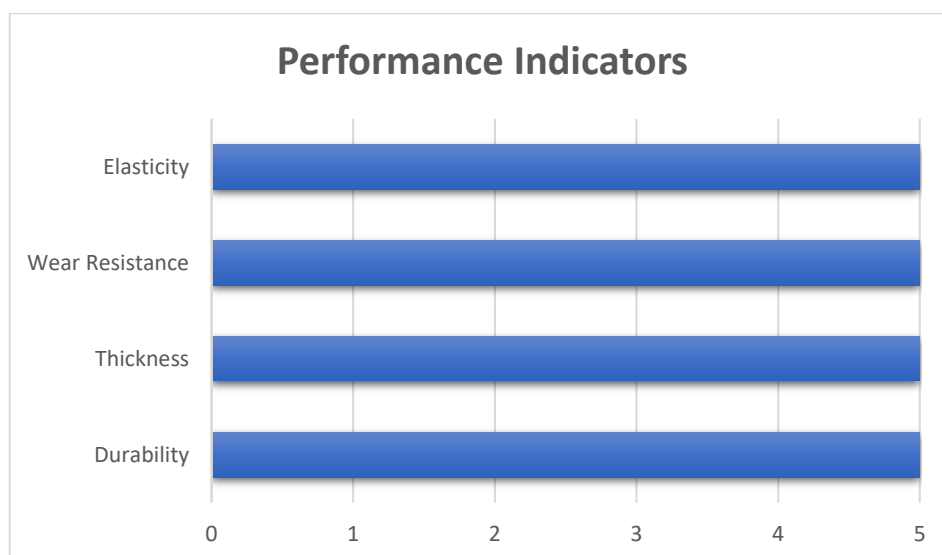
- **REINFORCED SYSTEM:** use **STARTEX NW or GM** and impregnate with two layers of 1-1,5 Kg/m² each and embed on the fresh layer the reinforcement. STARFLEX MONO TIX allows also wet on wet application of the second coat immediately with the same consumption of 1-1,5 Kg/m². The second coat can be applied also the next day as soon as curing allows the system to be walked over. Consider dry climates to be slowing down the curing of the product.

Important notice - Having enough product on the substrate through the first coat application is mandatory for avoiding the falling of the reinforcement (NW) due to low stickiness of the substrate.

- **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 hour (maximum)).

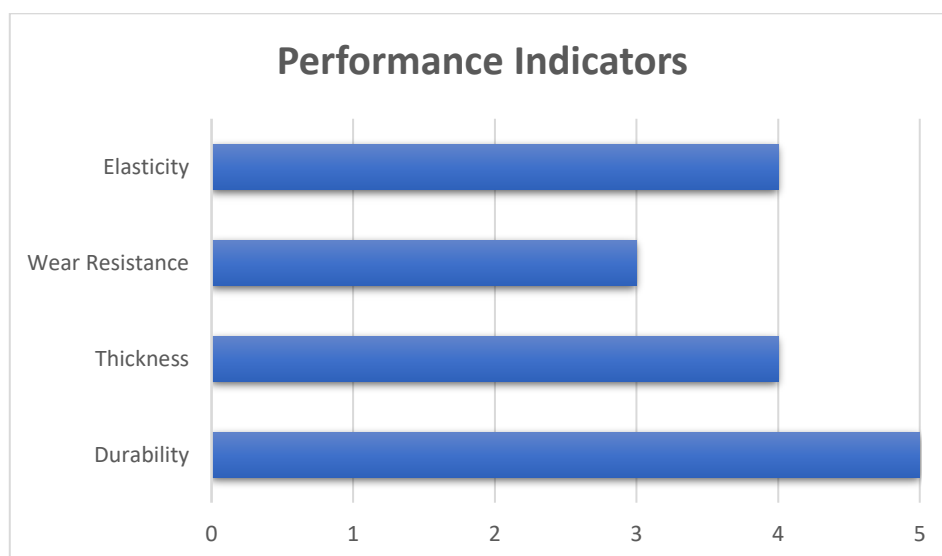
TOP COATS:

- **STARFLEX MONO TOP**, one component elastic aliphatic polyurea based top coat for manual application at a rate of 0,15-0,60 kg/m² per coat. The product for anti-slip can be broadcasted with quartz on the first of the 2 top coats.
The product for anti-slip can be broadcasted with quartz.
When 2 coats must be applied do not let more than 48 hours between the coats



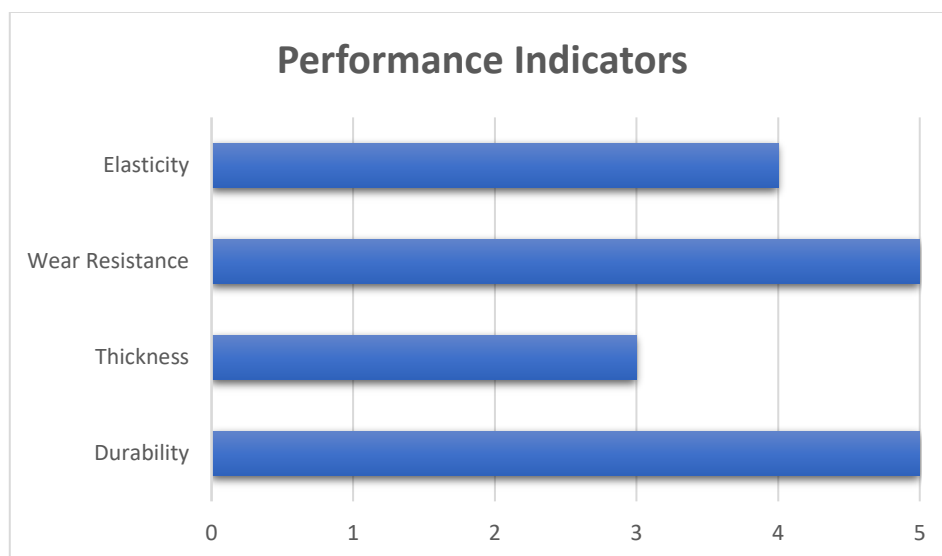
1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

- **STARFLEX MONO TOP 1**, one component elastic aliphatic polyurea based top coat for manual application at a rate of 0,15-0,60 kg/m² per coat. The product for anti-slip can be broadcasted with 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.



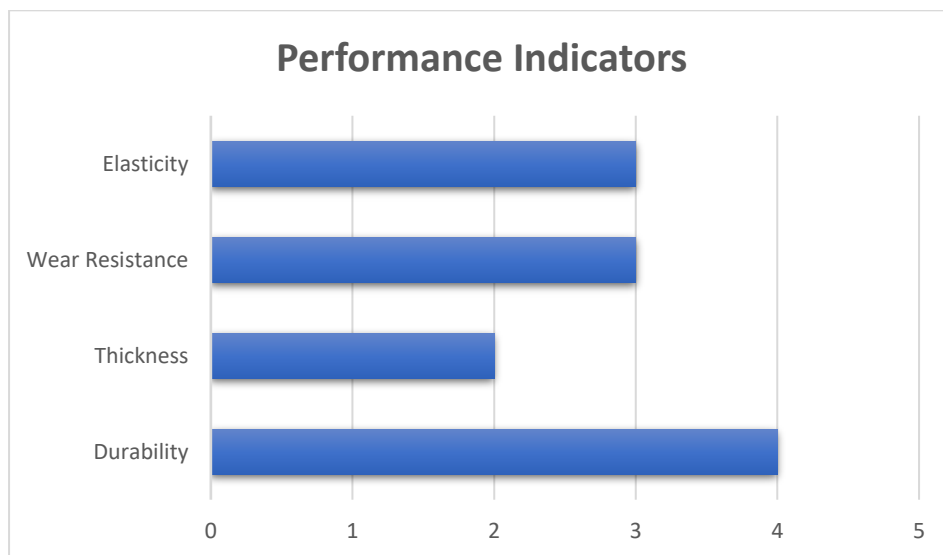
1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

- POLISTAR E/P**, two components 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.



1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

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



1 = Satisfactory // 2 = Comparable // 3 = Good // 4 = High // 5 = Excellent

FEATURES

- Water vapor permeable, crack-bridging ability, resistant to immersion into water. Ideal for outdoor application.
- Applicable from +5°C to 35°C substrate temperature (R.H. <85%).
- Operating temperatures from -30°C to +80°C in air, (+200 for short time)

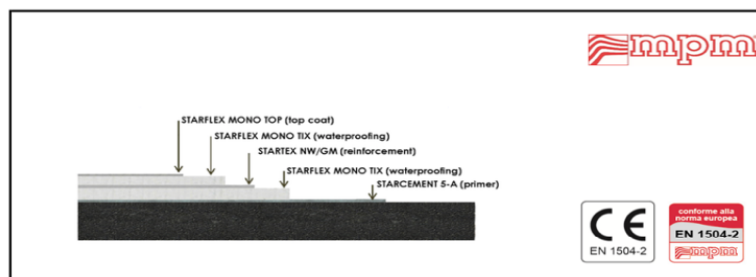
Roof&balconies - exposed - cold - bituminous					2,1 mm
	layer	Consumption Kg/mq	thickness DFT mm	Coverage cost g/micron	
Primer	1	STARCEMENT 5/A	0,10	0,04	2,33
Primer	1	PRIMER 0230/PRIMER 0230R	0,10	0,05	2,13
Waterproofing	2	STARFLEX MONO TIX	1,50	0,85	1,76
Waterproofing	2	STARFLEX MONO	1,20	0,63	1,91
Reinforcement	3	STARTEX NW/GM		0,50	
Waterproofing	4	STARFLEX MONO TIX	1,00	0,57	1,76
Waterproofing	4	STARFLEX MONO	0,90	0,47	1,91
Top Coat	5	STARFLEX MONO TOP	0,30	0,15	2,02
Top Coat	5	POLISTAR E/P	0,15	0,07	2,17
					2,1

Over-application (h)
1
1
24
24
24
24
Can be walked on 3 days

Features
Nontoxic, odorless and easy to apply
Good flexibility and crush strength
Reinforced system
Suitable for vertical applications
No yellowing or colour changing
Operating temperature
-30
90

Continous waterproofing membranes, concrete surfaces protection
Ideal for: Roofs, terraces and balconies, renewing old membranes.

One component Moisture curing liquid polyurethane





materiali protettivi milano srl

Sede legale

20122 Milano via Borgogna, 5
REA 1797438
C.F. P.I. Registro Imp. di Milano
05089750961
cap. soc. 10.000 € i.v.

Sede operativa ed amministrativa

20090 Opera (MI)
via Adda, 15
tel. +39 02 5760.9116 - 1225
fax +39 02 5760.3410
info@mpmsrl.com www.mpmsrl.com
