

RIO POLYEST

PLASTOMERIC DISTILLED POLYMER-BITUMEN WATERPROOFING MEMBRANES BASED ON DISTILLED BITUMEN AND PLASTOMERS

GRANTS *LEED* CREDITS



DESCRIPTION

The SIRIO membranes are made up of distilled bitumen, selected for industrial use, with elastomeric and plastomeric polymers added to obtain a phase inversion compound whose continuous phase is formed by polymers in which the bitumen is dispersed, where the characteristics are determined by the polymeric matrix and not by the bitumen even if this is the most consistent inaredient.

The performance of the bitumen is therefore increased along with the durability and the resistance to high and low temperatures while the already optimum adhesive and waterproofing qualities of the bitumen remain unchanged.

SIRIO is produced in various weights and reinforced with fibreglass mat and in stabilized "non woven" polyester fabric.

SIRIO POLYESTER and MINERAL SIRIO POL-

YESTER are reinforced with a rot-proof "non woven" polyester fabric composite, stabilized with fibreglass mat which is very strong and elastic with optimal dimensional stability in hot conditions which reduces the problems of the banana effect and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in "non woven" polyester fabric

The SIRIO POLYESTER membranes have the upper face of the membrane coated with a uniformly distributed, fine serigraphed talc, a patented treatment which makes it possible to quickly unroll the rolls and install the mem-

branes with the reliable and fast welding of the ioints.

The mineral versions have the upper face selfprotected with hot bonded and pressed slate granules, with the exception of an overlapping side strip, protected by a strip of Flamina film which is torched to weld the joints.

The underside of the membranes is coated with Flamina, a plastic film that melts when torched and which is embossed both to obtain the pretension and therefore the optimal retraction of the film and also to offer the torch a greater surface area for faster and more reliable installation. When the membrane is dry laid or spot bonded, the embossing diffuses the vapour.

APPLICATION FIELDS

The long lasting strength, elasticity and stability at high and low temperatures make SIRIO POLYESTER and MINERAL SIRIO POLYESTER membranes ideal for use in non particularly cold climates, as a single or multi-layer waterproofing systems for new building work or for refurbishment:

- On all sloped surfaces: on flat, sloped and curved surfaces.
- · On different types of substrates: site-cast or prefabricated concrete substrates, on timber roofing, on the most common thermal insulation used in the building trade.
- · For the most varied uses: terraces, flat and sloping roofs, dielectric coatings and walls in contact with the ground.

INTENDED USE OF "CE" **MARKING SPECIFIED** ACCORDING TO THE **AISPEC-MBP GUIDLINES** EN 13707 - REINFORCED **BITUMEN SHEETS FOR ROOF**

WATERPROOFING Under layer or intermediate layer in

multi-layer systems without permanent heavy surface protection

- SIRIO POLYESTER

 Upper layer in multi-layer systems without permanent heavy surface protection

- MINERAL SIRIO POLYESTER - 4.0 - 4.5 kg/m²

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

Membranes for fondations

- SIRIO POLYESTER

EN 13859-1 - UNDERLAY FOR **DISCONTINOUS ROOFING** Undertile

- MINERAL SIRIO POLYESTER



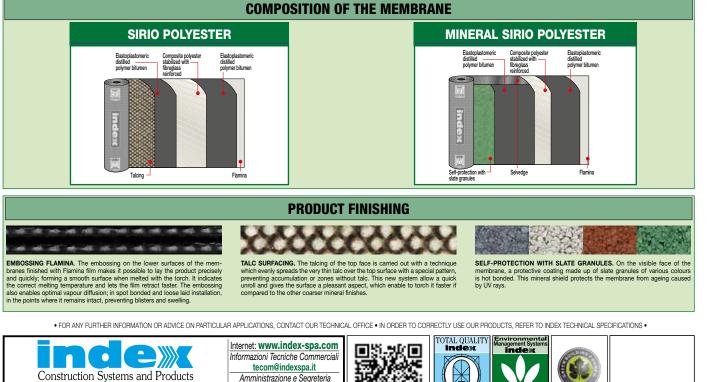
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						MINERAL SIRIO	
	Standard	т	POLYE	POLYESTER "Non-woven" composite polyester stabilized with fibreglass			
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass				
Weight	EN 1849-1	±10%	3 kg/m ²	4 kg/m ²	-	-	-
Weight MINERAL	EN 1849-1	±15%	-	-	3.5 kg/m ²	4.0 kg/m ²	4.5 kg/m ²
Roll size	EN 1848-1	-1%	1×10 m	1×10 m	1×10 m	1×10 m	1×10 m
Vatertightness after ageing 	EN 1928 - B EN 1926-1928	≥ ≥	60 kPa 60 kPa		60 kPa -		
Shear resistance L/T	EN 12317-1	-20%	350/250 N	-			
Maximum tensile force L/T	EN 12311-1	-20%	400/300 N _	400/300 N/50 mm NPD			
Elongation	EN 12311-1	-15% V.A.	35/40% -		35/40% NPD		
Resistance to impact	EN 12691 - A		700 r	-			
Resistance to static loading	EN 12730 - A		101	-			
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	140/140 N		140/140 N		
Flexibility to low temperature	EN 1109	s	-5°	-5°C			
Flow resist. at high temp.	EN 1110 EN 1296-1110	≥ -10°C	110°C _		110°C 100°C		
Res. to water penetration • after ageing	EN 1928 EN 1296-1928		-		W1 W1		
Reaction to fire Euroclass	EN 13501-1		E		E		
External fire performance	EN 13501-5		F roof		Froof		
Thermal specifications							
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			3.60 KJ/K	4.80 KJ/K	4.20 KJ/K	4.80 KJ/K	5.40 KJ/K



Amministrazione e Segreteria

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The figures shown are average indicative figures relevant to current production and may be changed or updated NDLDX at any thre without previous varming. The advice and technical information noucled, is what results from our best knowledge regarding the properties and the use of the product. Considering



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