Technical Data Sheet

SOLAR POLIESTERE EXTRA

CE

Special elastomer polymer distilled bitumen self-adhesive membranes (SBS)

DESCRIPTION

It is a self-adhesive composite elastomeric waterproofing membrane as it is composed of different waterproof masses that result in an optimal utilisation of the properties of each component, thus meeting the different requirements.
The production process employs three different types of compounds made in separate dissolvers and sent to the respective application sections of the production line.
The first phase consists in the impregnation of the spunbonded polyester fabric with a particular compound suitable to saturate its porosity, to compatibilize and enhance the elastic and plastic properties of the different masses applied subsequently on the upper and lower surfaces.
The second phase consists in coating the upper surface with a different waterproof mass depending on the intended use of the membrane.
The third phase consists in coating the lower surface with a particular compound with excellent adhesion properties, the thickness of which is calibrated.
SOLAR membranes are able to solve specific application and functional requirements and have numerous and important advantages, such as ease of installation with consequent saving in the application and the possibility to apply on surfaces sensitive to open flames and heat. SOLAR is recommended for waterproofing wooden structures, heat-sensitive insulation panels, deck roofs, restoration of historical and artistic roofs.

ADVANTAGES

- ✓ Safe application without risks of fire because it does not require using a blowtorch.
- ✓ Easy to use, it does not require specialised personnel.
- ✓ Rapid installation and reduced building time.
- ✓ Clean and easy handling and installation.
- ✓ Compatibility with different types of surfaces (for brick-cement or concrete slabs, metal, wood and thermal insulation).

INSTALLATION

1. Apply by roller or airless, bituminous primer, 0.2/0.4 kg/m2. This processing is not needed for wooden surfaces.
2. Dry place the rolls on the laying surface in a direction transverse to the gutter line in the case of pitched roofs; make lateral overlaps of 10 cm and of 15 cm at the top.
3. Remove the non-stick removable film, which is divided longitudinally, in one or more sessions, taking care to also remove the selvedge present on the upper face. Always secure the sheets mechanically at the side and top joints.
4. Roll the surfaces and in particular the joints, in order to ensure proper adhesion of the membrane.
5. Place any discontinuous membrane covering (roof tiles, roof shingles etc.).

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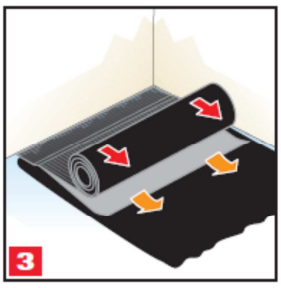

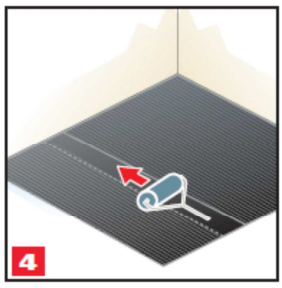

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WARNING

- ✓ SOLAR membranes should be used on clean, dry surfaces that must be treated with bituminous primer, with the exception of wooden surfaces.
- ✓ The head joints must be 15 cm and the side ones 10 cm.
- ✓ For vertical applications, fix the apex of the membrane with flashing and mechanical fasteners; where possible we recommend to make a horizontal top flap.
- ✓ It is advisable to apply the self-adhesive membrane with temperatures above 10°c.
- ✓ Lab tests showed excellent adhesion even at 0°C*.
- ✓ Store the rolls upright and indoors.
- ✓ In colder periods, you can facilitate the application using special hot air burners.
- ✓ The surface must not have depressions to avoid stagnation and must have a sufficient slope to ensure the smooth flow of rain water (min 1.5%)
- ✓ Schedule a periodic maintenance of the cover to remove debris, mud, weeds, etc. and to check the functionality of the waterproofing and ancillary works (drains, TV antennas, air conditioning systems, etc.).
- ✓ In the event that it is expected that the surface to be waterproofed has traces of residual moisture (e.g. restorations, application after rainfall), you should consider using vents, which must be positioned in order to enable the evaporation of the humidity.
- ✓ Avoid overlapping the pallets for storage.

Reinforcement: Non-woven reinforced polyester fabric

Compound: Elastomeric polymer bitumen (SBS)

Upper finish: PE Film - Slate

Lower finish: Removable plastic film

Intended use: Underlayer - Underslating

Application method: Self-adhesive

TECHNICAL SPECIFICATIONS

CHARACTERISTICS	TESTING METHOD	M.U.	TOLERANCE	VALUE
Thickness	EN 1849-1	mm	± 5%	2
Maximum tensile strength (L/T)	EN 12311-1	N/50 mm	MDV - 20%	400/300
Flexibility at low temperature	EN 1109	°C	MLV	-20
Creep	EN 1296/1110	°C	MDV - 10°C	100
Load resistance	EN 12730	Kg	MLV	10

PACKAGING

PRODUCT	ROLL SIZE	WEIGHT GR/M^2	THICKNESS MM	SQUARE METRES PER PALLET	EN STANDARDS
Solar Pol	15 m x 1 m	-	2	345	13707
Solar Pol	10 m x 1 m	-	3	300	13707
Solar Pol	10 m x 1 m	-	4	200	13707
Solar Pol Minerale	10 m x 1 m	3500	-	250	13707
Solar Pol Minerale	10 m x 1 m	4000	-	230	13707
Solar Pol Minerale	10 m x 1 m	4500	-	230	13707

* Peeling test at 0°C performed in the laboratory (see graph on the data sheet)

Please refer to the technical data sheet for more information, constant research in the field may result in changes to data content without the producer being obliged to inform all interested parties