

SBS modified bituminous membrane - Plain

GENERAL

A high performance elastomeric waterproofing membrane which combines the ability to withstand high ambient temperature with the usual characteristics of an SBS membrane of high flexibility at low temperature that makes it easy to apply at sub-zero temperature.

It is suitable for all types of waterproofing works including roofs, terraces, car parks, pile capping, foundation works, basement tankings, where high flexibility and malleability are required.

SPECIAL FEATURES

- Positive vapour barrier to water and dampness.
- Excellent resistance to atmospheric agents.
- High flexibility during application at sub-zero temperature with no physical strains.
- High malleability making it entirely suitable for difficult basement and foundation works.
- High softening point allowing it to maintain shape stability at high temperatures.
- Withstand thermal shocks.
- Accommodates structural movements.
- Resistant to chemical attacks and suitable for areas subject to seaside salinity

SIZE AND SURFACE FINISH

Biflex PL is supplied in 1 m wide and 10 m length. The surface finish is either sanded or protected with PE film..

REINFORCEMENT CORE AND COATING MIXTURE

Biflex PL waterproofing membranes is reinforced with 180 grams non woven spun bond polyester reinforcement that gives the membrane dimensional stability and resistance to puncture. It is coated with a specially formulated mixture of SBS modified bitumen which makes the membrane resistant to water, atmospheric agents, and malleable at low temperature while retaining a high softening point.

INSTRUCTIONS FOR USE

The membrane must first be unrolled and laid down on the area to which it is to be applied. Check the orientation carefully. Adjacent rolls should then be laid, each overlapping the one next to it by 10 cm on the side and 15 cm at the ends. Taking care not to change the orientation of each roll, reverse the process until each has been re-rolled. When laying the roll, the lower surface should be heated with a propane torch, using sweeping left to right movements. This will melt the lower surface of the membrane and allow it to stick to the substrate...



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m

Continue this process for each subsequent roll, remembering that the overlaps must be 10 cm for the edges and 15 cm at the ends. When the process is complete, carry out an inspection to ensure total adhesion.

When applied in a totally bonded system, a coat of **weberdry prime WB** or **weberdry prime SB** should be applied at the rate of 200 – 300 g/m². Allowed the primer to dry thoroughly, in time of high humidity we recommend it should be left overnight.

Properties	Typical Values	TOLERANCE	Test Method	
Thickness	4.00mm	-0.2mm	ASTM D5147 EN 1849-1	
Reinforcement base	180 gms/m ² non woven spun bond Polyester mat			
Tensile strength	- long - trans	800 N/5 cm 650 N/5 cm	±20% ±20%	EN 12311-1 EN 12311-1
Elongation	- long - trans	>40% >50%	±15% ±15%	EN 12311-1 EN 12311-1
Lap joint strength	- long - trans	750 N/5cm 650 N/5 cm	±20% ±20%	EN 12317-1 EN 12317-1
TEAR RESISTANCE	- long - trans	460 N 380 N	min min	ASTM D5147 ASTM D5147
Low temperature flexibility*		-5 °C	min	
Puncture Resistance Static		20 kg		EN 12730
Puncture Resistance Dynamic		800 mm		EN 12691
Water Absorption (n/a slate)		<0.4%	mlv	ASTM D5147
Resistance to static loading (methodA)		20 kg	min	EN 12730
Resistance to impact		>700 mm	mlv	EN 12691
Flow Resistance less than 2mm		100 °C	mlv	EN1110
Reaction to fire		F	Euroclass	EN 13501-1
Biflex membranes are resistant to chlorides, sulphates and phosphates found in ground water				

* Different cold flexibility value can be supplied to special order

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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