

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 4MM/180 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 4MM/180 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...



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	Values Type 1	Values Type 2	Values Type 3	Test Method
Thickness	4 mm \pm 0.2mm	4 mm \pm 0.2mm	4 mm \pm 0.2mm	ASTM D 5147
Cold flexibility	-5°C	-10°C	-20°C	ASTM D5147
Reinforcement base	180 gms/m ² non woven Polyester	180 gms/m ² non woven Polyester	180 gms/m ² non woven Polyester	ASTM D5147
Tensile strength* - long - trans	800 N/5 cm 650 N/5 cm	800 N/5 cm 650 N/5 cm	800 N/5 cm 650 N/5 cm	ASTM D 5147
Elongation* - long - trans	40% 50%	45% 50%	45% 50%	ASTM D 5147
Lap joint strength* - long - trans	800 N/5 cm 650 N/5 cm	800 N/5 cm 650 N/5 cm	800 N/5 cm 650 N/5 cm	ASTM D 5147
Tear resistance* - long - trans	450 N 400N	475 N 425 N	500 N 450 N	ASTM D5147
Water absorption (24 hrs 23°C)	-	<0.4 %	<0.4 %	ASTM D5147
Puncture resistance Static/Dynamic	L3/I3	L3/I3	L3/I3	ASTM E 154
Penetration (at 25°C)	20 dmm	30 dmm	40 dmm	ASTM D 5
Softening point	153°C	135°C	125°C	ASTM D 36
Reaction to fire	F	F	F	EN 13501-1
Biflex membranes are resistant to chlorides, sulphates and phosphates found in ground water				

* Values subject to a variation of \pm 20%

STORAGE

The membranes shall be in its original closed packaging pallets and protected from all sources of heat and extreme temperatures. Do not stack pallets on top of each other. Do not store pallets direct in the sun or in humid area, this may lead to damage its physical properties and reduces its shelf life.

The shelf life is 12 months from date of production if stored as per recommendations.

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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