

APP modified bituminous membrane - Slated

GENERAL

Biplas SL 4MM/180 is a high performance waterproofing membrane especially formulated with reflective natural or color slates to give maximum protection against UV radiation in an exposed system application.

The presence of the slates will also provide an aesthetically pleasant surface. It is an ideal membrane re-roofing applications where it can be placed on top of the existing surface, providing an economical and efficient solution to leaking roofs.

Biplas SL 4MM/180 membrane is resistant to water-borne chemical attack.

COATING MIXTURE

The coating compound mix of **Biplas SL 4MM/180** membrane is produced with high quality bitumen modified with selected (APP) polymers and thermoplastic resins and stabilizers. This mixture gives the membrane its excellent resistance to atmospheric agents and thermal ageing. The mix also allows constant flexibility and plasticity at low or high temperatures. The compound also allows for quick application and torching.

SELF PROTECTING SHIELD

During the manufacturing process the upper surface of the membrane is uniformly coated with a layer of natural slate flakes (chips/granules) that adhere to the top surface of the membrane at high temperature. During this process the selvedge of the slated surface is left uncoated and 10 cm covered with a flammable film that can be torched, thus providing continuity at the overlaps and a perfect watertight seal.

The slate flakes provide protection for the waterproofing covering from ageing caused by infra red and UV rays. The reflective power of the natural slate also lowers the temperature underneath. The slate flakes may come in a variety of colors.

REINFORCEMENT CORE

Biplas SL 4MM/180 membranes are reinforced with a 180 g/m² non woven spun bond polyester core. The core is of continuous thread, rot-proof material which has a high tensile strength and offers high resistance to tear and puncturing loads and remains highly flexible at temperatures below 0°C.

APPLICATION TOOLS & EQUIPMENT

The tools and equipment required to apply biplas membrane include a propane gas torch with related cylinder, a



knife for cutting and trimming, a trowel with a rounded end.

METHOD OF APPLICATION

The application of **Biplas SL 4MM/180** is both easy and quick. Where it is to be laid directly in a one-layer system on concrete, tiles or an existing roofing system, a coat of **weberdry prime WB** or **weberdry prime SB** at the rate of 200-300 g/m² should first be applied. Allow this coating to dry thoroughly. In areas of high humidity we recommend it should be left overnight.

As in all other application, the membrane should first be unrolled and positioned correctly on the surface to be treated. Each roll should overlap the adjacent roll by the size of the selvedge, i.e. 10 cm. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and adhesion to the substrate. Continue the above method for consecutive rolls remembering overlaps must always cover the whole selvedge and end laps 15 cm.

Inspection of lap joints must be carried out to ensure total adhesion.

Properties	Typical values	Test Method	
Thickness	4 mm ± 0.2mm	ASTM D 5147	
Reinforcement base	180 gms/m ² non-woven polyester	ASTM D 5147	
Tensile strength*	- long - trans	750 N/5cm 600 N/5cm	ASTM D 5147
Elongation*	- long - trans	40% 45%	ASTM D 5147
Lap joint strength*	- long - trans	750 N/5cm 600 N/5 cm	ASTM D 5147
Tear resistance*	- long - trans	500 N 400 N	ASTM D 5147
Cold flexibility	-2 to -5°C	ASTM D 5147	
Puncture resistance Static/Dynamic	L4 / I4	ASTM E 154	
Softening point	155°C	ASTM D 36	
Water absorption (24 hrs 23°C)	< 1%	ASTM D 5147	
Penetration (25°C)	20 dmm	ASTM D 5	
Reaction to fire	F	EN 13501-1	
Biplas membranes are resistant to chlorides, sulphates and phosphates found in ground water			

* Values subject to a variation of ±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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