

APP modified bituminous membrane - Plain

GENERAL

Biplas PL is a quality APP modified bituminous membrane, developed using the most up-to-date technology that enables it to perform over time and give long lasting waterproofing characteristics.

It can be used for a variety of application including roofs, terraces, large slabs, wet area, bathrooms and others.

SPECIAL FEATURES

- Positive barrier to water and vapour.
- Excellent resistance to ageing and atmospheric agents.
- High flexibility at low temperatures.
- Withstands thermal shocks.
- Maintains shape flexibility at high temperatures.
- Resistant to water borne chemical attack.

REINFORCEMENT CORE & COATING MIXTURE

Biplas PL roofing and waterproofing membrane is manufactured with 160 g/m² non-woven polyester reinforcements that are impregnated and coated with a mixture of APP Polymer modified bitumen.

This mixture gives the membrane its excellent properties of resistance to atmospheric agents, and to ageing. It ensures shape stability at high temperatures, and facilitates the ease of application and adhesion.

THICKNESS, SIZE & SURFACE FINISH

Biplas PL roofing and waterproofing membranes are available in a variety of thicknesses to suit all application requirements. Standard roll size is 1 x 10 meter lengths. The upper surface is finished in polyethylene film or on demand, can be covered with fine sand. The lower surface has a polyethylene film which melts when torched.



PACKAGING

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

APPLICATION METHODS

The application of **Biplas PL** roofing and waterproofing membranes is easy and quick by "torch-on" method: After having mopped the surface to be waterproofed with 200-300 g/m² of weber.dry prime WB, allow a drying time up to 24 hours.

The membrane is unrolled and placed in the position where it has to be torched on later. The membrane is then re-rolled without changing the given orientation and unrolled again, while heating the lower surface with a propane gas torch causing surface melting and subsequent adhesion to the primed surface.

Membranes should overlap each other by at least 10 cm at the side lap and 15 cm at the end laps.

Inspection of lap joints must be carried out to ensure total adhesion. Smooth out seams with a rounded trowel.

| Properties | Typical values Biplas .PL 4mm | Tolerance | TEST VALUES METHOD |
|--|---|--------------|--|
| Thickness | 4.00mm | -0.2mm | ASTM D5147 EN 1849-1 |
| Reinforcement base | 160 gms/m ² non woven Polyester | | |
| Mass per unit area | 4.70 kg/m ² | ±10% | EN 1849-1 |
| Straightness | pass | <20mm | EN 1848-1 |
| Tensile strength | - long 700 N/5cm - trans 500 N/5cm | ±20% ±20% | EN 12311-1 EN 12311-1 |
| Elongation | - long 40% - trans 40% | ±15% ±15% | EN 12311-1 EN 12311-1 |
| Lap joint strength | - long 700 N/5cm - trans 500 N/5cm | ±20% ±20% | ASTM D5147 ASTM D5147 |
| Tear Resistance | - long 600 N - trans 450 N | min min | ASTM D5147 ASTM D5147 |
| Low temperature flexibility* | 0° C | min | ASTM D5147 |
| Puncture Resistance Static | 15 kg | min | EN 12730 |
| Puncture Resistance Dynamic | > 300mm | mlv | EN 12691 |
| Water Absorption (N/A slate) | <0.15% | mlv | |
| Dimensional stability at 80°C | - long -0.5% - trans -0.5% | mlv mlv | ASTM D5147 ASTM D5147 ASTM D5147 |
| Flow Resistance less than 2mm | 100°C | mlv | EN1110 |
| Reaction to fire | F | Euroclass | EN 13501-1 |
| Biplas membranes are resistant to chlorides, sulphates and phosphates found in ground water. | | | |

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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