

## APP modified bituminous membrane - Plain

### GENERAL

**Biplas PL** is an ideal membrane for the waterproofing of roof, foundations, basements and footings, tanking and car parks. It can also be used for the terraces, wet areas, bathrooms and others.

### SPECIAL FEATURES

- Provides a positive barrier to water and vapor.
- Has excellent resistance to atmospheric agents.
- High flexibility at low temperatures.
- Maintains shape stability at high temperatures.
- Its high performance capabilities enable it to withstand thermal shocks, making it ideal for use in exposed systems.
- Resistance to water-borne chemical attack.
- Accommodates structural movement.

### COATING MIXTURE

The coating / impregnation mixture used in **Biplas PL** waterproofing membrane, which is also the waterproofing agent, is bitumen which has been heavily modified with APP thermoplastic resins, and stabilizers. This mixture gives the membrane excellent resistance to atmospheric agents and ageing, whilst maintaining shape stability at high temperatures, thus allowing high adhesion strength and making it easy to apply, with consequent saving in time and manpower.

### REINFORCEMENT CORE

The membranes are reinforced with a core of non-woven spun bond with continuous thread Polyester fabric, which has a weight of 180 g/m<sup>2</sup> and is both rot-proof and highly malleable. It is this core which gives the membrane its excellent mechanical properties, allowing for good elongation and affording high resistance to puncture. As an added feature, this core is first impregnated with the coating mixture.

### FINISH

The upper surface of the membrane is covered with a thin polyethylene film or on demand, can be covered with fine sand. The bottom surface is covered with a thin film of polyethylene that is burnt-off during the torching process.

### APPLICATION TOOLS & EQUIPMENT

You will need a propane gas torch, a gas cylinder, a knife for cutting and trimming and a trowel with a rounded end.



### 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

### METHOD OF APPLICATION

The application of **Biplas PL** waterproofing membrane 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/m<sup>2</sup> 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 10 cm. Once the roll has been positioned correctly, the membrane should be rolled up gain, 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 be 10 cm and end laps 15 cm.

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

Properties	Test Method	TOLERANCE	Typical Values	
Thickness	ASTM D5147 EN 1849-1	-0.2mm	4.00mm	
Reinforcement base			180 gms/m² non woven Polyester	
Tensile strength	- long - trans	EN 12311-1 EN 12311-1	±20% ±20%	750 N/5cm 550 N/5cm
Elongation	- long - trans	EN 12311-1 EN 12311-1	±15% ±15%	40% 45%
Lap joint strength	- long - trans	EN 12317-1 EN 12317-1	±20% ±20%	750 N/5cm 550 N/5cm
TEAR RESISTANCE	- long - trans	ASTM D5147 ASTM D5147	min min	550 N 375 N
Low temperature flexibility*		min	0° C	
Puncture Resistance Static	EN 12730	min	20 kg	
Puncture Resistance Dynamic	EN 12691	mlv	> 700mm	
Water Absorption (n/a slate)	ASTM D570	mlv	<0.15%	
Flow Resistance less than 2mm	EN1110	mlv	100°C	
Reaction to fire	EN 13501-1	Euroclass	F	
Biflex membranes are resistant to chlorides, sulphates and phosphates found in ground water				

\* Different cold flexibility value can be supplied to special order

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