

## APP modified bituminous membrane with double reinforcements

### GENERAL

**Biplon PL** is an APP modified waterproofing membrane with double reinforcements. Incorporated in Biplon are a non-woven polyester carrier and a fiberglass mat.

The non woven polyester carrier used in **Biplon PL** has excellent puncture resistance.

The fiberglass mat is situated just below the top surface of the membrane. This helps maintain shape stability.

The excellent mechanical properties of Biplon make it comprehensively versatile.

It is specially formulated for the waterproofing of bridge decks, viaducts, aqueducts and also for new roofing and re-roofing.

It is also recommended for elevated road-ways, bridge ramps, roof, car park etc.

### SPECIAL FEATURES

- Positive barrier to water and vapor.
- Specially designed for bridge deck waterproofing and does not require any protection system when applied under asphalt wearing course.
- Maintain shape stability at high temperatures.
- High flexibility at low temperatures.
- Excellent resistance to atmospheric agents.
- Accommodate structural movements.
- High resistance to traffic and site abuse.
- Resistant to acids, sulphates & chlorides.
- Resistant to water-borne chemical attack.
- Ideal bridge-deck waterproofing.

### SIZE AND SURFACE FINISH

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

### REINFORCEMENT CORE AND COATING MIXTURE

Biplon.PL waterproofing membranes is reinforced with a core of non-woven polyester of 180g/m<sup>2</sup> combined with a 50g/m<sup>2</sup> fiberglass fleece. The mix is made of bitumen, heavily modified amorphous poly-olefins, thermoplastic resins and stabilizers giving the membrane its excellent resistance to atmospheric agents and ageing and maintaining shape stability at high temperatures with improved adhesion strength.

### INSTRUCTIONS FOR USE

The application of **Biplon PL** is 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** at the rate of 200 – 300 grms/m<sup>2</sup> should first be applied. Allow this coating to dry thoroughly, in case of high humidity we recommend it should be left overnight.



### 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

As in all other applications, 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 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 be 10 cm and end laps 15 cm.

Inspection of Lap Joints must be carried out to ensure total adhesion.

PROPERTIES	TYPICAL VALUES	TOLERANCE	TEST METHOD
Thickness	4.00mm	-0.2mm	ASTM D5147 EN 1849-1
Reinforcement base	Fiberglass: 50 g/m <sup>2</sup> Polyester mat: 180 g/m <sup>2</sup>		
Mass per unit area	4.70 kg/m <sup>2</sup>	±10%	EN 1849-1
Straightness	pass	<20mm	EN 1848-1
Tensile strength	- long - trans	900 N/5cm 600 N/5cm	±20% ±20%
Elongation	- long - trans	25% 45%	±15% ±15%
Lap joint strength	- long - trans	900 N/5cm 600 N/5cm	±20% ±20%
Tear Resistance	- long - trans	625 N 425 N	min min
Low temperature flexibility*	0° C	min	EN 1109
Puncture Resistance Static	20 kg	min	EN 12730
Puncture Resistance Dynamic	> 700mm	mlv	EN 12691
Water Absorption (n/a slate)	< 0.15%	mlv	ASTM D5147
Dimensional stability at 80°C	- long - trans	-0.5% -0.5%	mlv mlv
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.			

\*Different cold flexibility values can be supplied to special order.

## DISCLAIMER

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