



Biplon PL

APP modified bituminous membrane with double reinforcements

Waterproofing

| Leb | Egypt | Jordan | UAE | Qatar | Kuwait | KSA | Oman |
|-------|-------|--------|-------|-------|--------|-------|-------|
| 1x10m | 1x10m | 1x10m | 1x10m | 1x10m | 1x10m | 1x10m | 1x10m |

GENERAL

Biplon PL is an APP modified waterproofing membrane with double reinforcements, non-woven polyester and glass fiber. 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. 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 water-borne chemical attack.

SIZE AND SURFACE FINISH

Biplon PL is available in 1m 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/m² combined with a 50g/m² fiberglass fleece. The mix is made of bitumen, heavily modified amorphous polyolefins, 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 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 10cm on the side and 15cm 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 10cm for the edges and 15cm 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 | TYPICAL VALUES | TEST METHOD |
|--|--|-----------------------------|
| Thickness | 4mm ± 0.2mm | ASTM D 5147 |
| Reinforcement base | 180 gms/m ² non-woven polyester 50g/m ² Fiber Glass | ASTM D 5147 |
| Maximum tensile force* (23±2°C) | • long | UEAtc 2001 (ASTM D 5147) |
| | • trans | |
| Elongation* | • long | ASTM D 5147/UEAtc 2001 |
| | • trans | |
| Shear resistance of joints* | • long | UEAtc 2001 |
| | • trans | |
| Tear strength* | • long | ASTM D 4073 |
| | • trans | |
| Cold flexibility | -2 to -5°C | ASTM D 5147 |
| Puncture resistance To Static load To impact | L25 I10 | UEAtc 2001 |
| Resistance to puncture* | 1000N | ASTM E 154 |
| Softening point | 150-160°C | ASTM D-36 |
| Water absorption (24 hrs 23±2°C) | <1% | ASTM D5147 |
| Penetration (25°C) | 15-20 dmm | ASTM D 5 |

* Values subject to a variation of ±20% (Except Resistance to puncture ±10%)

* Biplon membranes are resistant to chlorides, sulphates and phosphates found in ground water

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.

NOTE

The information included on this Technical Data Sheet is the sole property of Saint-Gobain Middle East Holding SAL (Previously SODAMCO Holding SAL). The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.