

ShaliTPO PR FB



Thermoplastic Polyolefin – Polyester reinforced fleece membrane

STP Limited

Description

ShaliTPO PR FB is a single ply thermoplastic polyolefin, reinforced with polyester scrim, fleece back roofing membrane with an excellent impermeability to water and moisture, the joints are hot welded to form a continuous water tight seam. **ShaliTPO PR FB** has also high UV resistance and high solar reflection keeping the roof cool.

Characteristics

Property	ShaliTPO PR FB (1.2 mm)	ShaliTPO PR FB (1.5 mm)
Thickness mm; UNI EN 1849-2	1.2 ±10%	1.5 ±10%
Specific Weight kg / m ² ; UNI EN 1849-2	1.32 ±10%	1.62 ±10%
Tensile Strength N / 5 cm; UNI EN 12311-2	1100 Min.	1100 Min.
Elongation at Break %; UNI EN 12311-2	15 Min.	15 Min.
Tearing Strength N; UNI EN 12310-2	300 Min.	300 Min.
Cold Bending °C; UNI EN 495-5	≤ -40	≤ -40
Dimensional Change %; 6 hrs. @ 80°C; UNI EN 1107-2	≤ ±0.5	≤ ±0.5
Puncture Resistance mm; DIN 16726-5.12	400 Min.	400 Min.
Hydrostatic Pressure Resistance 6 hrs. @ 5 bar; UNI EN 1928 met B	Waterproof	Waterproof
Peel Resistance of Joints N / 50 mm; UNI EN 12316-2	150 Min	150 Min
Shear Resistance of Joints N / 50 mm; UNI EN 12317-2	Breaking out of joints	Breaking out of joints
Root Resistance DIN 4062	No Penetration	No Penetration
Thermal Ageing in Air after 168 d @ 70°C, Cold Bending °C; UNI EN 1296	≤ -40	≤ -40
Weather Resistance UNI EN 1297	No Cracking	No Cracking
Resistance to Impact mm; UNI EN 12691	10	10

Features & Benefits

- Supplied in pre-manufactured standard thickness.
- Outstanding puncture resistance, high breaking and tearing strength, with very high peel strength of seam joints and heat welds.
- Chlorine free, plasticizer free, phthalate free, environmentally friendly and safe for humans.
- Exceptional resistance to heat, UV, Ozone, bacteria, chemical, acid corrosion.
- Resistance to root penetration, suitable for green roofs and below ground applications.
- Continuous serviceability from -30°C to 100°C, without cracking, tearing or brittleness failure.

Application

For Waterproofing on Metal, Wooden and RCC terraces of any shape.

Advantages

- Easy to handle and install
- Easily repairable
- Excellent Impermeability to water ingress
- Efficient hot air welded seam
- U V Resistance
- Cool Roof due to high solar reflection

Application Methodology

- Remove all loose gravels, dirt, oil, grease and other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- PCC / cementitious coving of 75 mm radius shall be provided at all junction between vertical and horizontal faces.
- Lay **ShaliGeoText 300** GSM loosely as a base layer with an overlap of 50 mm.
- Lay **ShaliTPO PR FB** of desired thickness and fix it mechanically with anchor of suitable size and adequate number depending on the air velocity in the respective areas.
- Provide overlap joints of 75 mm to 125 mm in both longitudinal depending upon fixing longitudinal and transverse direction of the **ShaliTPO PR FB** and sealed properly with hot air welding only.
- Terminate **ShaliTPO PR FB** at the top of parapet wall with termination strip and fix it by screw at 300 mm c/c.
- All termination strip shall be sealed with water lock sealant a back and **ShaliSeal PU GG** on top.

Health & Safety

- Use hand gloves and goggles during application.
- Clean hand with soap water after application.

Packing

2 m width x 20 meter length, Membrane thickness - 1.2 mm & 1.5 mm

Storage

Store rolls horizontally on pallets or shelving in a dry area under shed at ambient temperature and away from source of ignition.



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