

Superior ShaliPlus

APP Modified Membrane With 100 Micron HMHDPE Core



STP Limited

Description

Superior ShaliPlus is a heavy duty APP (Atactic Polypropylene) modified polymeric waterproofing membrane composed of 100 micron ($\pm 10\%$) high-density polyethylene sheet (HMHDPE) as center core, which is sandwiched between high quality polymeric bituminous mixture having high softening point, high heat resistance and good cold flexibility and protected on both sides with a thin thermo fusible HMHDPE film.

Superior ShaliPlus AL (Aluminium foil on top finish) is also offered to provide higher protection to membrane from any deterioration from prolonged exposure to UV rays.

Characteristics

Properties	Superior ShaliPlus	Superior ShaliPlus AL
Colour	Black	Silver
Softening Point, °C	≥ 120	≥ 120
Penetration at 25 °C, 100 gm, 5 sec.	> 25	> 25
Thickness of Polyethylene (centre Core)	0.100 mm \pm 0.01 mm	0.100mm \pm 0.01 mm
Tensile Strength, N / 5 Cn		
• Lengthwise	140	200
• Crosswise	120	200
Elongation, %		
• Lengthwise	> 300	> 40
• Crosswise	> 300	> 40
Heat resistance 100 °C for 2 hour	Does not drip	Does not drip
Cold resistance (Pliability) at (-) 5 °C	Does not crack	Does not crack

Product Code	1030	1035	1040	1050
Weight (Kg / roll)	30	35	40	50
Thickness, mm	2.0	2.5	3.0	4.0

Application

- **Superior ShaliPlus** is recommended for waterproofing of roof-tops, basements, terrace gardens, reservoirs, corrugated sheets and sunken slabs and Pre cast concrete roofs
- **Super ShaliPlus AL** provides aluminum finish on the top to provide UV resistance and hence may be used for waterproofing of non trafficable roof, where no protective layer is used over membrane

Advantages

- Excellent elongation property to accommodate all kinds and unpredictable structural movement
- High softening point & high penetration.
- Dimensional stability with flexibility to adopt all contours.
- Pliability at very low temperature.
- Aluminium topping protects membrane against UV rays, in case of **Superior ShaliPlus AL**

Application Methodology

- Specification regarding the nature of treatment should be decided depending on the type of structure and climatic conditions. For example, in severe climatic conditions a heavy / extra heavy treatment should be adopted.
- Provide adequate number of drainage outlets of 100 mm diameter at least for every 40 m² of roof area.
- Clean the surface thoroughly to make it free from any foreign material. Repair all undulation and surface defect like cracks, honeycombing etc.
- PCC / cementitious coving of 75 mm radius shall be provided at all junction between vertical and horizontal faces.
- Apply a coat of ShaliBond BS/CS @ 0.3 L / m² and allow it to dry.
- Use STP Bitumen 85/25 as bonding material which is to be prepared by heating it to the correct working temperature and spreading over the roof properly and uniformly @ 1.2 kg / m² per coat for waterproofing application or as specified.
- Unroll and fix **Superior ShaliPlus** by applying uniform pressure with hand for removal of any entrapped air.
- Provide overlap joints of 75 mm in longitudinal direction and 100 mm in transverse direction of the **Superior ShaliPlus** roll and seal it properly with hot bitumen.
- For double layer treatment, stagger all overlap joints
- Terminate **Superior ShaliPlus** at the top of parapet if the height of parapet is upto 500 mm. In case the height of the parapet is above 500 mm, Membrane shall be terminated at parapet in a groove 50 x 40 mm at a height of 300 mm from the roof level and groove shall be filled up with cement-sand mortar (1:4) with addition of ShaliPlast LW @ 200 ml / bag of cement.
- Top coat shall be finished with a layer of stone grit or pea gravel (6 mm and down size) which shall be laid by spreading it over a hot bitumen coat @ 1.2 Kg / m² laid over the felt.
- In case of non-trafficable roof, over the finished coat of bitumen, apply a coat of SuperSilverShield, bituminous based aluminium paint, @ 0.125 L/m².
- For a trafficable roof, protect membrane with PCC / Tiles. In case of PCC, ShaliPolyFibre @ 600 grm/m³ and ShaliPlast LW+ / STP No 1 (Liquid) @ 200 ml / bag of cement to be added to improve the resistance to crack formation and as well as waterproofing properties of screed.
- Use ShaliBond BS/CS cold adhesive wherever hot application is difficult or not permitted.
- For **Superior ShaliPlus AL** no additional bitumen coating or any other finish is recommended on top and in general used for non trafficable roof.

Health & Safety

- Use goggles, hand gloves and shoes during application
- Clean hands with a mild solvent and thereafter wash with warm soap water

Packing

Available in 1 m x 10 m Roll.

Storage

Keep in cool dry place, under shed, away from heat and fire.



Advisory Cell
STP Limited
+91 81302 81114
Waterproofers to the Nation

STP's Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Repairs & Rehabilitation
GARA (Grouts & Admixtures)
Other Powder Products
Sealant & Additives
Epoxy Flooring
Protective / Anti-Corrosive Coating
Other Products



Call us : +91 98250 27368
Nilkamal Paints & Hardware



Visit us at : www.stpltd.com or Email at : info@stpltd.com