

Superior ShaliPlus®

APP Modified Polymeric HMHDPE Membrane



STP Limited

Description

Superior ShaliPlus® is a heavy duty APP modified polymeric waterproofing membrane, with high quality polymeric bituminous mix having high softening point, high heat resistance and cold flexibility sandwiched between two thermo fusible high-density polyethylene sheet (HMHDPE) on both sides.

It conforms to of IS 16540: 2017.

Characteristics

Property	Superior ShaliPlus#				
	2020	2020 SA*	2030	2045	1030
Colour	Black				
Softening Point, °C	≥ 120				
Penetration at 25 °C, 100 grm, 5 sec.	15 ± 5				
Heat resistance 100 °C for 2 hrs	Does not drip				
Water absorption, %, maximum	0.2				
Pressure Head Test	No Sign of leakage				
Cold resistance (Pliability) at 5 °C	Does not crack				
Elongation, %					
• Lengthwise	> 100				> 300
• Crosswise	> 100				> 300
Tensile Strength, N/5 Cm					
• Lengthwise	40			60	140
• Crosswise	30			40	120
Additional Center Core, micron				20	100
Thickness, mm	0.50		1.0	1.5	2.0
Length, Mtrs	1 x 20				1 x 10

* Self-adhesive

Application

- **Superior ShaliPlus®** is recommended for waterproofing of
 - Roof-tops, basements
 - Terrace gardens, reservoirs
 - Corrugated sheets and sunken slabs
 - Pre-cast concrete roofs.

Advantages

- Good elongation to absorb all structural movements
- High softening point & high penetration.
- Dimensional stability with pliability to adopt to all contours.
- Flexibility at very low temperature.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Ensure that the moisture content in the prepared surface does not exceed 5%.

- Correct all construction joints by grouting with ShaliGrout IP at 1 m apart and opening of joints in “V” cut groove and fill with ShaliFix RM C, using ShaliSBR Latex as the bond coat.
- Ensure that level of all drain mouth is lower than deck slab level by at least 15 mm.
- Provide 75 mm x 75 mm coving made out of PCC admixed with ShaliPlast LW + and using ShaliSBR Latex as bond coat.

➤ **Waterproofing Application**

- Apply a coat of ShaliTex Primer @ 0.3 L / m² and allow it to dry. In areas of high humidity, the prime surface should be left over-night.
- On primed surface, use STP Bitumen Grade 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 up to 450 mm. In case the height of the parapet is above 450 mm, Membrane shall be terminated at parapet in a groove 75 x 65 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 or apply a coat of SuperSilverShield, bituminous based aluminium paint, @ 0.125 L / m².

➤ **Protection of Waterproofing**

- For a trafficable roof, protect membrane with PCC / Tiles. In case of PCC, ShaliPolyFibre @ 600 grm / m³ and ShaliPlast LW+ @ 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.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Storage

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



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
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