

# ShaliPlus

APP Modified Polymeric HMHDPE Membrane



STP Limited

## Description

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

## Characteristics

Property	ShaliPlus	ShaliPlus AL
Colour	Black	Silver
Softening Point, °C	≥120	≥120
Penetration at 25 °C, 100 gm, 5 sec.	15 ± 5	15 ± 5
Tensile Strength, N/5 Cm		
• Lengthwise	40	120
• Crosswise	30	120
Elongation, %		
• Lengthwise	>100	>30
• Crosswise	>100	>30
Heat resistance 100 °C for 2 hr	Does not drip	Does not drip
Cold resistance (Pliability) at 5 °C	Does not crack	Does not crack

Product	Type	Roll Size	Thickness (mm)	Wright (Kg)
ShaliPlus	2020	1 m x 20 m	0.6	20
	2025	1 m x 20 m	0.8	25
	2030	1 m x 20 m	1.0	30
	2035	1 m x 20 m	1.2	35
	2040	1 m x 20 m	1.3	40
	2045	1 m x 20 m	1.5	45
ShaliPlus AL	1030	1 m x 10 m	2.0	30
	2045	1 m x 20 m	1.5	45

## Application

- **ShaliPlus** is recommended for waterproofing of roof-tops, basements, terrace gardens, reservoirs, corrugated sheets and sunken slabs.
- **ShaliPlus AL** provides aluminum finish on the top to provide UV resistance and hence may be used for waterproofing for non trafficable roof.

## 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.
- Practically no ageing.
- Aluminium topping protects membrane against UV rays, in case of **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 m<sup>2</sup> 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 junctions between vertical and horizontal faces.
- Apply a coat of ShaliBond BS/CS @ 0.3 L / m<sup>2</sup> 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 / m<sup>2</sup> per coat for waterproofing application or as specified.
- Unroll and fix **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 **ShaliPlus** roll and seal it properly with hot bitumen.
- For double layer treatment, stagger all overlap joints
- Terminate **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 / m<sup>2</sup> 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 / m<sup>2</sup>.
- For a trafficable roof, protect membrane with PCC / Tiles. In case of PCC, ShaliPolyFibre @ 600 gm / m<sup>3</sup> 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 **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, gum boots and nose mask during application.
- Clean hands with warm water after application.

### Packing

As refer above.

### Storage

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



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