

# ShaliEPDM

Ethylene Propylene Diene Monomer Waterproofing Membrane



STP Limited

## Description

**ShaliEPDM** is a synthetic single ply preformed Waterproofing Membrane in black colour. The sheet maybe non-reinforced or fabric / scrim reinforced. It is available in roll form with following dimensions. **ShaliEPDM** membrane is ideal for Waterproofing of Basement, Terrace and Pond Lining. It offers outstanding ozone and weather resistance delivering one of the longest service lives available. It Confirms ASTM D 4637 Type I.

## Characteristics

Parameter	Result	ASTM Standard Type I	Test Method
Tensile Strength, MPa	> 11	> 9	ASTM D 412
Elongation, % Ultimate	> 460	> 300	ASTM D 412
Tear Resistance, kN / m	> 30	27	ASTM D 624
Temperature Resistance, °C	- 40 to +110	-	-
Brittleness Point Max, °C	No crack	No crack @ - 45	ASTM D 2137
Tensile Set, %	1.2	< 10	ASTM D 412
Ozone Resistance, at 166 hrs. 50 pphm, 40°C or 50% extension	No cracks	No cracks	ASTM D 1149
Heat Aging Resistance 4 weeks @ 116°C <ul style="list-style-type: none"><li>• Tensile strength, MPa</li><li>• Elongation, % Ultimate</li><li>• Ultimate Tear Resistance, kN / m</li><li>• Linear Dimensional change, %</li></ul>	10 ± 1 350 ± 30 23 ± 2 0.30 ± 0.50	8.30 200 21.9 ± 1	ASTM D 412 ASTM D 412 ASTM D 624 ASTM D 1204
Resistance to Water Absorption, % after 7 days immersion at 70°C	0.30	< 8	ASTM D 471
UV Resistance (Ultraviolet exposure @ 80°C)	No crazing	No crazing	ASTM D 4637
Water Vapour Permeance, max, perms	0.1	-	ASTM E 96
Resistance to hydrostatic head, m	40	-	ASTM D 5385

## Application

- Waterproofing of Terrace or Podium
- Waterproofing of Underground structures and Basement
- Pond and Lake Lining at golf course, Water preservation ponds, etc.

## Advantages

- Available in various width and length from medium to large range
- No protection required for non-trafficable roof since UV resistant
- East to install
- High durability
- Can be used over a wide temperature range at cold and hot zone

## Application Methodology

### ➤ Surface Preparation

Surface needs to be free from any defect like crack, undulation, foreign materials, grease and oil marks.

### ➤ Application of Material

**ShaliEPDM** can be loosely laid or fully adhered with **ShaliBond EPDM**, a rubber- based bonding adhesive for terrace application with an overlap of 75 mm on both directions and an overlap of 150 mm for basement application. All overlaps can be sealed with double side bonding splice tape.

### ➤ Pond Testing

- Water Ponding test can be conducted by sealing all drain outlet and ponding water to an average height of 50 to 75 mm for 72 hours and thereafter the same is released and checked for the roof / ceiling for leakage / seepage, if any.
- Water Ponding test is necessary to carry out before putting any protection over membrane to facilitate better accessibility, in case of any correction is desired.

### ➤ Protection over Membrane

- For trafficable roof membrane must be protected from any damage while in use a separation / protection membrane of **ShaliGeoText 300 GSM** is laid over membrane, preferably loose, with an overlap of 50 mm on both directions and seal all the overlap fully to avoid any movement.
- Protection layer could be:
  - a. Loosely laid PCC tile of 1' x 1'
  - b. PCC of average thickness of 65 mm is laid with precut of 10 mm x 10 mm while the concrete is green at every 4 m in both directions and gaps are filled with **ShaliSeal PU GG**, a single component Polyurethane Sealant.

## Packing

Available in roll form of 30 m length and various width of 1.2 m, 3 m and 6 m width and in thicknesses of 1.2 mm, 1.5 mm and 2 mm.

## Health & Safety

- Totally non-hazardous.
- However, it is preferred to use hand gloves and safety goggles while handling.
- Wash hands with water after handling.

## Storage

- Store under shed and dry place.
- Keep it away from flame and fire to avoid damage.
- Keep the rolls vertically.

## Shelf Life

There is no deterioration to material even after a prolonged storage, however, it is better to use within two years of manufacturing.



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### Product Range

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