

SuperThermoLay[®] AR

Polyester Reinforced APP Modified Anti-Root WP Membrane



STP Limited

Description

SuperThermoLay[®] AR is a uniquely formulated pre-fabricated plastomeric Anti-root waterproofing membrane with spun bonded polyester mat at its core. **SuperThermoLay[®] AR** has an excellent resistance to weather and ageing. The core of 160 gsm spun bonded non-woven polyester mat offers an excellent tensile strength, elongation and a superior lap joint strength. The polymer modification of bitumen with Atactic Polypropylene (APP) results in an excellent resistance to hot and cold temperatures along with resistance to penetration of root through the membrane. In fact roots of plant gets diverted without puncturing the membrane when SuperThermoLay Garden is in use.

SuperThermoLay[®] AR forms an impervious, flexible waterproofing layer which can withstand normal movement of structure without showing any deterioration and serve for a prolonged period of time.

SuperThermoLay[®] AR is an excellent choice for waterproofing and normally used in protected roofing and waterproofing applications particularly in the areas where root growth is foreseen

Characteristics - Physical

Penetration @ 25 °C	25 ± 5	Softening Point, °C	≥150
Heat Resistance, 120 °C, 2 hr	No flow	Cold Flexibility, °C	- 0±2
Water Absorption, %	0.2		

Characteristics - Technical

Property	Standard	Result
Elongation, % @ 23 °C <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	45 ± 10 50 ± 10
Tensile / Lap Joint Strength, N / 5 cm <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	650 ± 150 500 ± 150
Tearing Strength, N <ul style="list-style-type: none">LongitudinalTransverse	ASTM D-5147	350 ± 100 300 ± 100
Puncture Resistance <ul style="list-style-type: none">Static IndentationDynamic Indentation	ASTM D-5602 ASTM D-5635	L – 3 I – 3

Application

SuperThermoLay[®] AR membrane are ideal for a wide range of waterproofing application and recommended for Terrace Garden, Planter Boxes, Podium garden.

Advantages

- Total impermeability.
- Excellent resistance to ageing and weathering.
- Outstanding bond-ability and seam integrity.
- Stability at high temperatures.
- High resistance to impact and puncture.
- Simple, single-layer installation reduces labour and error.

- Excellent cold flexibility.
- Anti Root Property
- Recyclable
- Free from any hazardous and toxic material

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.
- Build-up gradient minimum 1 in 100 with PCC admixed with ShaliPlast LW +.
- 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 the primed surface, start laying of membrane at lowest point of the slope roof and progress to the higher point. Unroll the membrane half-way, align the side laps and fix **SuperThermoLay® AR** membranes by using a LPG torch and applying uniform pressure with a roller / wet cloth to ensure to remove entrapped air, if any. Instead of propane torch, you may apply ShaliPrime APP, if so desired and wherever torching is not permitted or not advisable. If ShaliPrime APP is applied, ShaliTex Primer need not be applied.
- Flame should be moved in shape of “L” applying about 75 percent of the heat to the roll and 25 percent to the substrate including the lap area of previously installed membrane. The flame should be moved across the width and upto the lap edge while membrane is slowly unrolled and adhered to the under lying surface.
- Heat both layers of membrane at the overlap and use round tipped hot trowel to seal overlap. Excess compound should be smoothed and pressed into seam using hot trowel. Overlap joint shall be provided of 75 mm in longitudinal direction and 100 mm in transverse direction

➤ Protection of Waterproofing

- **For UV protection on non-trafficable roof, SuperThermoLay® AR** waterproofing membrane shall be finally coated with Super Silver Shield.
- For trafficable roof **SuperThermoLay® AR** Waterproofing system shall be protected with PCC dosed with ShaliPlast LW+ of 50 mm thick / tiles loosely laid or fixed, over a separation layer of spot bonded ShaliGeoText 120 / 150 gsm.

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.

Packing

Rolls are available in 1 m x 10 m in 3 mm and 4 mm thickness.

Storage

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



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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