

# 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

Penetration @ 25 °C	25 ± 5	Softening Point, °C	≥150
Tensile / Lap Joint Strength, N / 5 cm		Tearing Strength, N	
• Longitudinal	650 ± 150	• Longitudinal	350 ± 100
• Transverse	500 ± 150	• Transverse	300 ± 100
Elongation, % @ 23 °C		Puncture Resistance	
• Longitudinal	45 ± 10	• Static Indentation	L – 3
• Transverse	50 ± 10	• Dynamic Indentation	I – 3
Heat Resistance, 120 °C, 2 hr	No flow	Cold Flexibility, °C	- 0±2
Water Absorption, %	0.2		

## 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

- Clean the surface thoroughly to make it smooth and free of any foreign material.
- Apply a coat of ShaliTex Primer @ 0.3 l / m<sup>2</sup> 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 up to 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
- **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 50mm thick / tiles loosely laid or fixed, over a separation layer of spot bonded ShaliGeoText 120 / 150 gsm

### Health & Safety

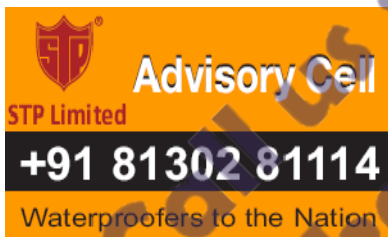
- Use goggles, hand gloves, gum boots and nose mask during application.
- Clean hands with warm water after application.

### 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'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

