

# TarFelt LM

Single Component Cold Applied Water Based Bituminous Liquid Membrane



STP Limited

## Description

**TarFelt LM** is a single component, water based elastomeric polymerized bituminous emulsion with selected graded fine fillers and some additives. **TarFelt LM** is applied by brush / roller without any use of heat. **TarFelt LM** forms a tough, elastomeric, monolithic, seamless water proofing membrane.



For non-trafficable roofs, **TarFelt LM** may be coated with SuperSilverShield (aluminium finish) or with ShaliCryl 215 E to provide UV resistance and aesthetic look. For Trafficable roofs / areas, **TarFelt LM** shall be protected with screed / tiles / china mosaic with a separation layer of ShaliGeoText of minimum 150 gsm.

**TarFelt LM +**, in addition to properties of **TarFelt LM**, provides insulation.

## Characteristics

Appearance	Viscous emulsion dries to black coating	Drying Condition	40 min for each coat depending on climatic condition
Tensile Strength after 7 days (1.50 mm film), MPa	0.50	pH	8 -10
Specific Gravity, @ 30 °C	1.0 ± 0.01	Coverage @ 1.20 mm DFT, kg/m <sup>2</sup>	2.2
Elongation after 7 days (1.50 mm film), %	190 - 200	Hardness, Shore A (After 7 days)	> 50
Viscosity on Brookfield @ 25 °C, cps	1600 - 1800	Water Absorption, %	< 1

## Application

- Waterproofing of industrial roof – corrugated asbestos / galvanized iron sheet / others.
- Rejuvenation of existing bituminous membrane – Hessian / HMHDPE based membrane.
- Residential terraces (flat / slope) in substitution of hessian / HMHDPE based membrane.

## Advantages

- Water based product, cleaner technology, non toxic.
- Easy to apply by brush / roller.
- Cold applied and hence does not require heating.
- Excellent impermeability
- Good crack bridging property.
- Good flexibility and does not crack on aging.
- Prevents growth of fungus, algae etc.

## Application Methodology

- Remove dust, flakes, or other foreign particles by scrubbing / wire brush / jet of dry air. Clean the surface mechanically or by grinding to make it smooth.

- Prime the cleaned surface with the mixture of **TarFelt LM** and water in 50:50 ratios.
- Allow it to dry till it becomes tacky.
- Apply the first coat of **TarFelt LM** by brush / roller / spray on primed surface @ 1.0 kgm<sup>2</sup>.



- Spread non-woven ShaliGeoText of 50 gms polyester base mesh over the first coat of TarFelt LM when the surface is tacky with a overlap of 50 mm on both directions.
- Allow the first coat to dry with the non-woven mat spread as above.
- Apply second coat of **TarFelt LM** @ 1.0 kg/m<sup>2</sup> and saturate the reinforcement totally.
- For all flat roofs, conduct pond testing as per ASTM D5957-98 standard after 7 days of curing of second coat of **TarFelt LM**.
- For trafficable area, protect **TarFelt LM** with screed / tiles / china mosaic with a separation layer of ShaliGeoText of minimum 150 gsm.
- For non-trafficable area, top coat with SuperSilverShield / ShaliCryl 215 E for UV protection and aesthetics.
- Coverage shall depend on application and surface finish of substrate

### Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.

### Packing

Available in 20 kg pack.

### Storage

Store in a cool dry place, under shed, away from heat.

### Shelf Life

1 year in original unopened sealed condition.

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