

# TarFelt<sup>®</sup> LM

Single Component Cold Applied Water Based Bituminous Liquid Membrane



STP Limited

## Description

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

For non-trafficable roofs, **TarFelt<sup>®</sup> 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<sup>®</sup> LM** shall be protected with screed / tiles / china mosaic with a separation layer of ShaliGeoText of minimum 150 gsm.



## Characteristics

Appearance	Viscous emulsion dries to black coating	Drying Condition	40 min for each coat depending on climatic condition
Application Temperature °C	> 5	Tensile Strength after 7 days (1.50 mm film), MPa	0.50
pH	8 -10		
Specific Gravity, @ 30 °C	1.0 ± 0.01	Water Absorption, %	< 1
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	Theoretical Coverage @ 1.20 mm DFT, kg/m <sup>2</sup> *	2.2

\* Depending upon surface condition.

## 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

- A. Do not apply **TarFelt<sup>®</sup> LM** over metal sheet roof, whether corrugated or otherwise, except in case of rejuvenation. Use TarFelt APP for metal sheet roof application.

## B. Directly Over Substrate

- 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 equal ratio.
- Allow it to dry till it becomes tacky.
- Apply the first coat of **TarFelt® LM** by brush / roller / spray on primed surface @ 1.0 kg / m<sup>2</sup>.



- Spread non-woven ShaliGeoText of 50 gsm polyester base mesh over the first coat of **TarFelt® LM** when the surface is tacky with an 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 trafficable roof in case of screed finish, use ShaliPolyFibre @ 600 gm / m<sup>3</sup> and ShaliPlast LW+ / STP No 1 (Liquid) @ 200 ml / bag of cement to improve the resistance to crack formation and as well as impact waterproofing properties in screed.

- 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.

## C. Rejuvenation of Existing Treatment

- Clean existing surface thoroughly and correct any visual defects.
- Any part existing if loose, to be removed and re-fixed.
- **TarFelt® LM** shall be applied thereafter as stated earlier above, adopt the final finish also as suggested above.

## 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

12 months in original unopened sealed condition.

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