TarFelt® LM

Water Based Bituminous Liquid Membrane



Description

TarFelt® LM is water based, cold applied, single component, elastomeric in-situ seamless monolithic coating. This unique system is ready to use acrylic modified bituminous liquid membrane.

Characteristics - Physical

| Appearance | Viscous emulsion dries to black coating | Drying Condition, hrs. | 40 min. for each coat depending on climatic conditions |
|-------------------------------------|---|--|--|
| Application Temperature, °C | > 5 | | 8 - 10 (for foot traffic) |
| Specific Gravity, @ 30°C | 1.0 ± 0.01 | Water Absorption, % | < 1 |
| Viscosity on Brookfield @ 25°C, cps | 1600 - 1800 | Theoretical Coverage, m² / mm DFT, kg * | 1.6 |

^{*} Depending upon surface condition.

Characteristics - Physical

| Properties | Standard | Results |
|---|-------------|-----------|
| Elongation after 14 days (1.5 mm film), % | ASTM D-412 | 190 - 200 |
| Tensile Strength after 14 days (1.5 mm film), MPa | ASTM D-412 | 0.50 |
| Crack bridging, mm, maximum | ASTM C-836 | 0.8 |
| Pull off adhesion, MPa | ASTM D-4541 | 1.2 |
| Hardness, Shore A (After 14 days) | ASTM D-2240 | > 50 |

Application

- Corrugated asbestos / metal / non-galvanized corrugated tin roofs.
- Sunken
- Rejuvenation of existing bituminous membrane Hessian / HMHDPE based membrane.
- Residential terraces (flat / slope) in substitution of hessian / HMHDPE based membrane.

Advantages

- User friendly, Non-toxic, Green product.
- Excellent Waterproofing Characteristics.
- Good crack bridging property
- Cold applied and hence does not require heating.
- Monolithic and Seamless Membrane.
- Excellent bonding to concrete.
- Can be applied on moist surface also.
- Excellent vapour barrier.
- Good flexibility and does not crack on aging.
- Prevents growth of fungus, algae, etc.

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.
- Repair all cracks by cutting "V" groove and fill with PMC mortar prepared in the ratio of ShaliCrete: Cement: Sand (1:2:5).
- Provide 50 mm x 50 mm coving made out of PMC mortar as above.

Material Preparation

- Stir **TarFelt**® **LM** by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle to ensure a homogenous mix.
- After stirring, wait for the product to settle in order to let entrapped air escape.

Waterproofing Application

- Slightly damp the surface. Avoid standing water / ponding.
- Prime the surface with a mixture of **TarFelt**® **LM** and potable water in the ratio of 50 : 50 and apply @ 400 gm / m² of the mixture and allow it to touch dry.
- Apply first coat of **TarFelt**® **LM** @ 0.70 kg / m² by brush / roller / airless spray while the primed surface is tacky. For faster and smoother application, airless spray is preferred.
- Spread fiber glass net of 45 GSM with overlaps of 50 mm in both directions when thesurface is still tacky.
- Allow 1st coat to dry for 10 12 hr.
- Apply second coat of TarFelt® LM @ 0.70 kg / m² by brush / roller / airless spray for final DFT of 1000 microns in two coats inclusive of fiber glass of 45 GSM (theoretical coverage depending on surface conditions).
- Sprinkle sand @ 200 gm / m² over the final **vertical** coating when the surface is still tacky to facilitate plastering.
- Ensure final curing time of 36 hrs. before allowing / carrying out any further work.
- Conduct ponding test after 7 days of curing at ambient temperature.

Protection of Waterproofing

- Spread ShaliGeoText 150 GSM with overlap of 50 mm in both directions on fully cured surface.
- Protect surface with 50 mm PCC admixed with ShaliPlast® IW and a gradient of 1:100.

Rejuvenation of Existing Treatment

- Clean existing surface thoroughly and remove all loose / foreign material.
- TarFelt® LM shall be applied on prepared surface as per above procedure.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapor.
- Wear suitable protective clothing, gloves and eye protection
- In case of contact with skin, 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 immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

Packing

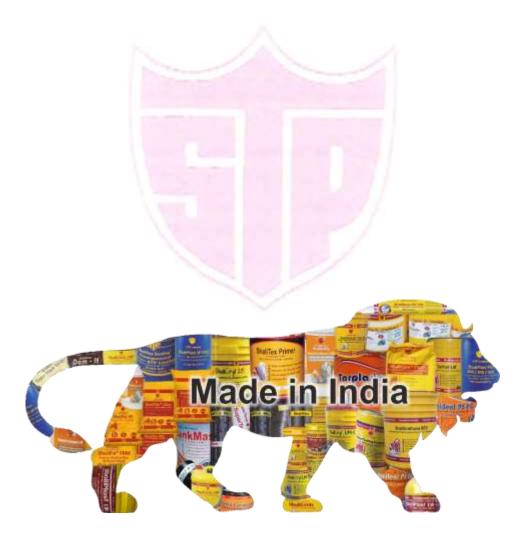
Available in 20 kg pack.

Storage

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

Shelf Life

12 months in original unopened sealed condition.





Product Range

Waterproofing & Insulation
Road Surfacing
Sealants & Adhesives
Pipeline Coatings
Protective/Anti-Corrosion Coatings
Epoxy and Flooring
Grouts and Admixtures (GARA)

RestoFix - Repair/Rehabilitation Other Construction Chemicals

