TarFelt® LM

Water Based Bituminous Liquid Membrane

STP Limited

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 8 - 10 (for foot traffic)
Application Temperature, °C	> 5		
Specific Gravity, @ 30°C	1.1 ± 0.02	Water Absorption, %	< 1
Viscosity on Brookfield @ 25°C, cps	4000 ±500	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	200 - 240
Tensile Strength after 14 days (1.5 mm film), MPa	ASTM D - 412	1.20 ± 0.1
Crack bridging, mm, maximum	ASTM C - 836	1.5
Pull off adhesion, MPa	ASTM D - 4541	1.2
Hardness, Shore A (After 14 days)	ASTM D - 2240	> 50

Application

- Sunken Areas
- Sub grade concrete
- Corrugated asbestos / metal / non-galvanized corrugated tin roofs
- 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 (Horizontal Slabs)

- 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 the surface is still tacky.
- Allow 1st coat to dry for 10 - 12 hrs.
- 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 (Horizontal Slabs)

- 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.

➢ Waterproofing Application (Vertical Subgrade Walls)

- Slightly damp the surface.
- 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** @ 0.20 kg / m² by brush / roller / airless spray while the primed surface is tacky. For faster and smoother application, airless spray is preferred.
- Allow 1st coat to dry for 10 - 12 hrs.
- Apply, optional, 2nd coat of **TarFelt® LM** @ 0.20 kg / m² by brush / roller / airless spray while the 1st coat surface is tacky. For faster and smoother application, airless spray is preferred.

➢ 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 vapour.
- 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.

STP Limited
Enhancing Structures' Life

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

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