

ShaliCryl[®] LM HI

Energy Saving Heat Insulative Reinforced Acrylic Liquid WP Membrane



STP Limited

Description

ShaliCryl[®] LM HI is a single component, energy saving, highly elastomeric, UV resistant, heat insulative, micro fibre reinforced, monolithic, water based waterproofing acrylic liquid membrane having high mechanical strength and excellent weather resistance.

The latest ceramic micro technology provides solar energy reflecting property enhancing cooling effect inside rooms, thus saving energy. The microspheres in the coating reflects most of the solar energy back to the atmosphere and allows hardly any radiation energy to penetrate through roof.

Characteristics

Appearance	White Pasty Mass	Specific Gravity	1.10 ± 0.02
Solid Content, %	64 ± 1	Hardness (Shore A), @ 14 Days	50 - 60
Viscosity @ 27°C, cps	15000 ± 1000	Dirt Pick up Resistance	Good
Elongation at break, %, @ 14 Days	180	Wet Adhesion strength (With Concrete and Metal)	Excellent
Tensile Strength, N / mm ² , @ 14 Days	0.50	Thermal Conductivity, W / Mk	0.09
Theoretical coverage for 600μ DFT m ² / L *	1	Solar reflectivity index EN 673 and EN 410	113
Theoretical Power Saving, %	30 - 35	Application Temperature °C	> 10

* Depending upon condition of surface.

Application

- Effective heat insulation coating with energy saving for both horizontal and vertical surfaces.
- Provides seamless elastic film over building roofs / terraces –flat, slope and or inclined.
- Waterproofing of roof terrace including corrugated roof, slabs, chajjas, balconies, parapet walls.
- Being liquid, suitable for waterproofing of complicated geometrical structures like domes, arches, paraboloids, and steeps rising on flashings.
- Very effective for crack repair in cementitious surfaces and waterproofing of vertical wall surfaces and over existing cementitious waterproofing treatments like brick-bat coba, concrete screeds, acrylic coatings etc.

Advantages

- Green product.
- Energy saving and heat insulating.
- UV resistant, user friendly.
- Washable and easy to apply.
- Environmentally safe and non-polluting, Abrasion / dirt pickup resistant.
- Forms high mechanical strength, elastic & resilient coating enabling it to withstand structural movements.
- Higher tensile strength, tear resistance & bond strength with cementitious substrate.
- No additional protective coating is required for roof subjected to normal foot traffic.
- Can be coated on both sides of the roof top and ceiling to have better effect.

Application Methodology

➤ Surface Preparation

- Clean surface of all loose gravel, dirt and foreign particles with high-pressure wash. Before application surface should be totally dry, free from moisture, oil, grease, mill scale or rust.
- Do not apply during rains.
- Prior to application, repair torn flashings, loose brick, faulty coverings of parapet walls to provide even surface. Large blisters and surface breaks shall be slit and opened for the release of entrapped moisture then repaired with ShaliCrete URP wherever necessary.
- In case of old terraces with brick-bat- coba / screeds, ensure that substrate is firm and sound. Repair damage / hollow portions, sharp edges with ShaliFix RM C. Surface cracks must be filled with PlastiSeal or ShaliSeal CPM in case of wider cracks.
- Bitumen based waterproofing treatments must be completely removed by mechanical scarification or by any other effective mechanical method.

➤ Material Preparation

- Stir **ShaliCryl® 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.

➤ Application of Material

- Prime the surface with ShaliPrime WB diluted with water in the ratio 1 : 0.5 and apply @ 8 – 10 m² / L..
- Apply first coat of **ShaliCryl® LM** @ 550 ml / m².
- Place one layer of ShaliGeoText40 / 50gsm when the coat is still wet.
- Apply second coat of **ShaliCryl® LM** @ 550 ml / m² and allow it to dry.
- Finally apply the top coat of **ShaliCryl® LM HI** @ 500 ml / m² to get a 1 mm DFT.
- For vertical wall, apply **ShaliCryl® LM HI** @ 250 ml / m² in two coats over primer coat to get 300 plus micron DFT.
- Ensure all corners / gaps / joints / protrusions / outlets are reinforced with 50 gsm fiber glass or 40 / 50 gsm ShaliGeoText with one extra coat.

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 contact with eyes, wash immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

Packing

Available in 5 Liter and 20 Liter container.

Storage

Keep in cool and dry place, under the 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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