

ShaliCryl[®] LM HI

Heavy Duty, Reinforced, Heat Insulative, Acrylic Liquid Membrane



STP Limited

Description

ShaliCryl[®] LM HI is a single component, highly elastomeric, UV resistant, heavy duty, monolithic, water based waterproofing acrylic liquid membrane system. **ShaliCryl[®] LM HI** has high mechanical strength, elastic and resilient acrylic polymers, selected fillers, light fast durable pigments, microfibers and additives which imparts excellent weather resistance.

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

Low thermo-conductivity of the fillers and microsphere provides very effective thermal insulation.

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	110
Theoretical Power Saving, %	30 - 35	Application Temperature °C	> 10

* Depending upon condition of surface.

Application

- Effective heat insulation coating 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 steps 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

- User friendly, easy to apply, environmentally safe and non-polluting.
- Resistant to UV, Abrasion & dirt pickup.
- The film can be washed with water after complete drying.
- Excellent heat insulation property which reduces the considerable room temperature.
- Very good coating for energy saving purpose.
- 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.
- Considered to be a Green Product.

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 covings 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 HI** @ 550 ml / m². Place one layer of ShaliGeoText40/50gsm when the coat is still wet.
- Apply second coat of **ShaliCryl[®] LM HI** @ 550 ml / m² and allow it to dry.
- Finally apply the third coat of **ShaliCryl[®] LM HI** 500 ml / m² to get a 1 mm dry film thickness.
- 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.

Self Life

12 months in original unopened sealed condition.



Advisory Cell
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Waterproofers to the Nation

STP's Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Protective / Anti-Corrosive Coating
GARA (Grouts & Admixtures)
Sealant & Additives
Repairs & Rehabilitation
Epoxy Flooring

