

# ShaliCryl<sup>®</sup> LM HI

Heavy Duty Reinforced, Heat Insulation Acrylic Liquid Membrane



STP Limited

## Description

**ShaliCryl<sup>®</sup> LM HI** is a single component highly elastomeric UV resistant, heavy duty monolithic, water based waterproofing liquid membrane system. **ShaliCryl<sup>®</sup> 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, which only 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	Specific Gravity	1.38 ± 0.02
Solid Content,%	70 ± 1	Hardness (Shore A), @ 14 Days	80
Viscosity @ 27°C, cps	6000 ± 500	Dirt Pick up Resistance	Good
Elongation at break,%, @ 14 Days	160 - 170	Wet Adhesion strength (With Concrete and Metal)	Excellent, No bond failure
Tensile Strength, N / mm <sup>2</sup> , @ 14 Days	1.00 - 1.10	Thermal Conductivity, W/mk	0.09
Theoretical coverage for 600µ DFT m <sup>2</sup> / L *	1.2	Total Sunlight reflective Index,%	90
Theoretical Power Saving, %	40	Application Temperature °C	> 5

\* 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 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

- 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

- 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.
- Apply one coat of ShaliPrime WB allow it to dry for 2 - 3 hr.
- Apply first coat of **ShaliCryl<sup>®</sup> LM HI** @ 415ml / m<sup>2</sup>. Place one layer of ShaliGeoText40/50gsm when the coat is still wet.
- Apply second coat of **ShaliCryl<sup>®</sup> LM HI** @ 415 ml / m<sup>2</sup> and allow it to dry.
- Finally apply the third coat of **ShaliCryl<sup>®</sup> LM HI** 415 ml / m<sup>2</sup> to get a 1 mm dry film thickness.
- For vertical wall apply **ShaliCryl<sup>®</sup> LM HI** @ 210 ml / m<sup>2</sup> 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

- Use goggles and hand gloves during application.
- Clean hands with warm soap water after application.
- Dispose empty can as per local rules.

## Packing

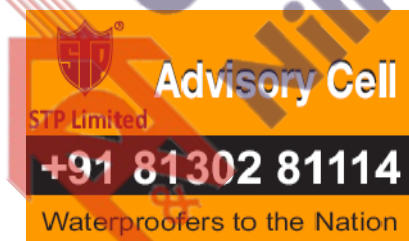
Available in 5 Liter and 20 Liter container.

## Storage

Keep in cool and dry place, under the shed, away from heat.

## Self Life

12 months in original unopened sealed condition.



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

