

ShaliCryl[®] LM HI

Energy Saving Heat Insulative Reinforced Acrylic Liquid WP Membrane



Description

ShaliCryl[®] LM HI is a single component, energy saving, highly elastomeric, UV resistant, heat insulative, micro fiber 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 reflect most of the solar energy back to the atmosphere and allow hardly any radiation energy to penetrate through roof.

Product Information

Form, Colour	White thick liquid
Handling & Storage	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Packaging	Available in 5 kg and 25 kg container.
Shelf Life	12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 40°C.
Handling Precautions	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. Keep away from children and animals. After opening the seal, always consume total material.

Technical Characteristics @ 27°C, 55% RH

Solid Content, %	65 ± 1	Dirt Pick-up Resistance	Good
Density, gm / cc	1.35 ± 0.03	Solar Reflectivity Index, EN 673 and EN 410	113
Elongation at break, %	200 ± 20	Wet Adhesion Strength (w/ Concrete & Metal)	Excellent
Tensile Strength, N / mm ²	1.8 ± 0.2	Thermal Conductivity, W / mK	0.09
Hardness, Shore A	80 - 85	Theoretical coverage for 1 mm DFT, kg / m ² *	1.5

* Depending upon condition of surface.

Field of 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, paraboloid, 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 Information

- ✓ **Substrate Temperature** +10°C Min / +40°C Max
- ✓ **Ambient Temperature** +10°C Min / +40°C Max

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 RM** 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 FRM**. Surface cracks must be filled with **PlastiSeal** or **PlastiSeal P** 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 HI** 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 surfaces by applying diluted **ShaliCryl LM HI** in 1:1 with water @ 0.2 - 0.3 kg / m².
- Apply first coat of **ShaliCryl® LM HI** @ 0.75 kg / m².
- Apply second coat of **ShaliCryl® LM HI** @ 0.75 kg / m² and allow it to dry to get a 1 mm DFT.
- Another glossy transparent thin coat of **ShaliKote LM HI** may be applied @ 0.06 - 0.08 kg / m² for better aesthetics and dirt / water repellency.
- For vertical wall, apply **ShaliCryl® LM HI** @ 0.34 kg / m² in two coats over primer coat to get 300 plus microns DFT.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

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

Cleaning & Maintenance

- Clean all tools immediately after use with water. Do not allow the material to harden. Hardened materials should be removed mechanically.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation
- Road Surfacing
- Sealants and Additives
- Pipeline Coating
- Protective / Anti-Corrosive Coating
- Epoxy Flooring
- Grouts / Admixtures
- RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



Advisory Cell: +91 81302 81114