

ShaliCryl[®] LM

Energy Saving Micro Fiber Reinforced Acrylic Liquid Membrane



STP Limited

Description

ShaliCryl[®] LM is a single component, energy saving, UV resistant, elastomeric, micro fiber reinforced, heavy duty monolithic / seamless waterproofing liquid membrane having high mechanical strength and resistance to fungal growth.

ShaliCryl[®] LM is three-layer system with coats in 3 different colours ensuring proper build-up of the thickness. The top coat shall be white for a good cooling effect arising out of its high SRI. STP recommends use of ShaliCryl LM HI as top coat for a better SRI.

It conforms to ASTM D-6083.

Characteristics – Physical

Appearance	White / Red / Blue / Grey	Theoretical Coverage, m ² / L for 350 Micron DFT *	1.6
		Solid Content, %	69 ± 1
Viscosity @ 27 °C, CPS	6000 ± 500	Hardness (Shore A) @ 14 days	80
Solar Reflective Index for White membrane	103	Wet Adhesion strength (with concrete and metal)	Excellent. No bond failure
Dirt Pick Resistance	Excellent	Specific Gravity	1.30 ± 0.05
pH	9.01	Water permeability, % reduction	> 95
Solar Reflectance (0 – 1 scale)	0.82	Emittance (0 – 1 scale)	0.92

* Depending upon surface condition.

Characteristics – Technical

Property	Standard	Result
Elongation at break, %, 14 days	ASTM D-6083	135 ± 5
Tensile Strength, N / mm ²	ASTM D-6083	1.10
Crack bridging, mm maximum, 10 cycles	ASTM C-836	1.0
Pull Off Adhesion, after 7 days, MPa	ASTM D-454	1.6
Water Vapor Transmission, Gm / m ² / 24 hrs.	ASTM E 96	21
UV Resistance 1000 Hrs	ASTM G 154	No Hardening / Chalking
Resistance Yeast and Mold	ASTM D 3273-74	Satisfactory

Application

- Flat / sloped roof with light foot traffic.
- Over brick bat coba.
- Being liquid, suitable for waterproofing of complicated geometrical structures like domes, arches, paraboloids and steps rising on flashing.
- 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, 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

- Ensure that surface is free from all loose gravel, dirt and foreign matter 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 or parapet walls to provide even surface. Large blisters and surface breaks shall be slit and opened for the release of entrapped moisture then cemented with Shalimar Dam-It 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 90 Surface cracks must be filled with PlastiSeal.
- 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 **ShaliCryl LM** diluted by addition of clean water in the ratio 1:1 and apply @ 8 – 10 m² / L.
- Allow the primed surface to dry.
- Apply **ShaliCryl® LM** using brush, squeeze, roller or Airless spray
- Sequence of the colour (White, Red, Blue or Grey) can be decided depending on the desired top coat colour. Ensure that the colour of the first and the third coat are the same, in case of only two colours are being used. This would ensure correct consumption of material.
- For Cooling effect of roof third coat should be white. STP recommends use of ShaliCryl LM HI as top coat for better SRI.
- Ensure all corners / gaps / joints / protrusions / outlets are coated with two extra coats.

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 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 5 L and 20 L container.

Storage

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

Self Life

12 months in unopened air tight 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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