

MCRYL THERMOSHIELD-HR

Polyurethane based Solar Reflecting Coating

Usage area -

- ☒ Industrial Factory roofing's – concrete, asbestos, GI & Tin sheets.
- ☒ Building Roof, Terraces & Exterior Walls.
- ☒ External & Internal walls of any structures.
- ☒ Pre cast structures.
- ☒ Cold storages.
- ☒ Industrial storage tanks.
 - ☒ Concrete,Plastics tanks and Pipes.
 - ☒ Reduce electrical consumption for A/C
 - ☒ Gives complete waterproofing of the applied area.

Advantages –

- 1) Unique Non-conductive properties save air conditioning energy cost up to 25%.
- 2) Keeps the building cool in summer and warm in winter.
- 3) Durable - Very high Ultraviolet light resistance.
- 4) Non-conductive properties results in enhance durability of concrete structures.
- 5) Elastomeric & flexible film resist water penetration takes care of linear movement.
- 6) Protects the substrates from Algae and fungus growth.

Technical Specification Meryl Thermoshield HR –

Appearance	– White colored, uniform paste.
Surface Dry Time	– 15-20 Minutes at 28 deg cel
Inetrcoat period	– 2-3 hours at 28 deg cel
Complete curing	– 3 days minimum at 28 deg cel
Tensile Strength at break (ASTM D 412)	– 1.5-2.0 N/mm ²
Elongation at break (ASTM D 412)	– 20%
Service temperature	– (-28) TO (+90) deg cel
UV accelerated weathering (3000 hours)	– No evidence of cracking, deterioration & loss of flexibility.

Thermal conductivity: -

Mcryl Thermoshield HR	- 0.1 W/m deg cel
Brick	- 1.15 W/m deg cel
Concrete	- 1.25 W/m deg cel
Steel	- 16.0 W/m deg cel

Note – Higher the K values higher the rate of heat transmission. **Application guidelines**

Mcryl Thermoshield HR:

Surface preparation - The surface should be free of dirt, grease, oil, sludge moss, blistered cement coating, loose plaster etc. Thoroughly wire brushed to remove saturated dirt and loose particles. Allow the surface to complete dry.

Application Procedure - Seal the cracks of parapet wall and roof substrate by creating a groove of 3mm size with MCRYL Crack Seal (acrylic sealant). Allow the sealant to dry for 24 hours before applying a sealer/primer.

Sealer/ Primer coat -

The concrete or cementitious substrates are highly porous. It is necessary to make the substrate less absorptive so that the topcoats film thickness remains same. MCRYL Thermoshield HR is highly elastomeric pu-acrylic polymer without filled system has extra ordinary penetrating power which seals the porosity, micro crevices of the substrate. It provides strong adhesion to the substrate and top coating. Due to non-filled system it overcomes the problem of linear stress and strain created in the substrate. Apply one coat of Nano-Seal as primer coat by brush

Priming – Use Mcryl nano-seal as primer surface to get best result

First & Second coat - Apply the first coat after three to four hours applying of sealer coat. Dilute the material by 10 to 15% with water and apply it by brush / spray. Mix the content of pack in its original container by stirring with the help of wooden stick to a uniform, homogeneous free flow consistency.

Allow the coating to dry at least 3 hours before applying second coat. Minimum two coats are recommended. If required additional coat may be applied. Allow the coating to dry/cure on its own, external curing.

Coverage – This depends on porosity & roughness of the substrate. Coverage
Concrete surface – 30-40 Sq ft/ kg/coat.

Dry film Thickness – 200-225 microns of two coats.

Cleaning – Mcryl Thermoshield HR used tools and equipments to be cleaned immediately by clean water. Hardened material can be removed mechanically.

Storage

Shelf life – Mcryl Thermoshield HR has shelf life of 12 months in unopened packing if stored in cool dry place.

Precautions -

Health & Safety suggestion: -Mcryl Thermoshield is alkaline in nature. Gloves and goggles should be worn while handling. If splashes on skin or eyes should be washed off with clean water. Mcryl Thermoshield HR is non-flammable.

Precaution – Do not apply on wet or damp substrate.

Do not apply in rain.

Do not dilute more than 15%.

Packing –

4- Kg Plastic container – Each corrugated box contains 16g of 4 x 4,
20 kg Plastics bucket ,pack.50 kg

Important Note - The suggestion and data are based on information we believe to be reliable. They are offered in good faith but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on commercial scale.

Suggestions for uses of our products should not be understood as recommendations that they are used in violation of any patents.

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