

MRO 4025 – HEATSHIELD Coating

PRODUCT DESCRIPTION

'MRO 4025 – HEATSHIELD' is a water-based, high solids, acrylic latex elastomeric coating reducing the heat loading into a buildings up to 35 %. This highly effective radiant barrier, heat reflecting roof coating paint is designed for maximum thermal efficiency, high reflectivity, ultra violet resistance and years of trouble free service with energy savings.

BENEFITS

Typical Reduction in Roof Temperatures

- RCC terraces: 10°C to 15°C
- Asbestos cement sheets: 15°C to 20°C
- GI or powder coated sheets: Up to 25°C



APPLICATION AREAS

Recommended for:

- Commercial buildings
- Warehouses
- Factories
- Metal tanks
- Water tanks
- Industrial & godown shades with GI
- Cold storages
- Computer server rooms
- Electrical control panel rooms
- Walking decks & balconies
- Stair ways & pool area
- Green buildings

DIRECTIONS FOR USE

SURFACE PREPARATION: ON CEMENTITIOUS SURFACES

- Surface to be applied upon must be free from dust, loose material, paint, oil, or any other material which may impair adhesion.
- Mechanical means such as wire brushing & shot blasting can be used. Finally vacuum cleaning of all loose solids and liquids can be done if required.
- All surface cracks should be filled up with proper sealants.

SURFACE PREPARATION: ON METAL SURFACES

- Metal surface should be cleaned to remove existing paint, rust by appropriate mechanical or chemical means.
- New surface should be de-greased and cleaned well

MIXING

- Turn container upside down 6 hours prior to application.
- Mix thoroughly using mechanical stirrer.
- Over mixing more than 5 minutes may damage the particles and reduce insulation properties.

APPLICATION

Apply 3 coats of 'MRO 4025 – HEATSHIELD' without any dilution by brush or roller at an interval of 2-3 hours.

- Ensure that the coated area does not come in contact with water for at least one hour.
- Apply with a quality brush, or roller.
- For best results, Apply when surface and ambient temperatures are above 13°C and below 32°C.
- After completion of full coating, it should be allowed to cure for 24 hrs. Drying time may vary due to temperature / humidity and surface condition.

AIRLESS SPRAYER:

- Pump Ratio: 33:1 or larger
- Volume: 1.5 gpm (5.7 lpm) or greater
- Hose: 3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for Length above 50'.
- Tip Size: 0.017" (for tight spots) 0.019–0.023" (normal use)
- Pressure: Minimum of 3,000 PSI

AVAILABLE PACKAGING

20 Kg Container

MRO 4025 – HEATSHIELD Coating

Technical Properties

PARAMETER	VALUE
Colour ASTM D 1544	Pastel, Tint, Deep, Accent basses and brilliant White
Specific Gravity ASTM D 792	1.1
Viscosity ASTM D 1200-10	10-15 cps@25°C
Mix Ratio	Single
Ph Value ASTM D 1293	6-7
Functional Cure ASTM D 1640	24 hrs
Water Absorption ASTM D 570	0.15 %
Solid Content ASTM D 1353	50-55 %
Cured Hardness ASTM D 2240	80 shore D
Bond Strength /Pull of Adhesion Strength ASTM D 4541	3.5 N/mm ²
Solar Absorption ASTM E 1549	0.148 %
Solar Reflectance ASTM E 1549	0.88 %
Thermal Emittance ASTM C 1371	0.913
Solar Reflective Index (SRI) ASTM E1980	112
Thermal Conductivity @20°C ASTM E 1125-04	0.09 W/ cm
Abrasion Resistance ASTM D1044	5000 cycles
Accelerated Weathering Test ASTM G-155	2000 hours
Coverage	56 Sq.m / 20 kg / 200 mic / 2 coats
Application Temperature	0-35°C

SHELF LIFE & STORAGE

'MRO 4025 - Heatshield' has a shelf life of 18 months if kept in a dry store.

HANDLING

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding PPE, safe use, and physical & health hazards. Safety data sheet is available from MRO INFRA or your local MRO INFRA Channel Partner.

DISPOSAL

All used and unused product should be disposed of in accordance with state regulations.

LIMITED WARRANTY

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended MRO INFRA product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty.