



WPM 007 COOLKOTE

Heat Reflective Coating

DESCRIPTION

WPM 007 CoolKote is an advanced acrylic polymer technology coating developed for use as a heat reducing coating on terraces. The coating is elastomeric to expand & contract with the substrate and designed for use as an exposed seamless coating that can accommodate thermal stresses on roof surfaces and reflect visible radiation thereby reducing heat build-up and keeping the interiors cool.

USES

- Building Roofs / Terraces - Flat & Slope.
- Over existing cementitious waterproofing treatments like sound brick-bat coba, concrete screeds, acrylic coatings, etc.,

STANDARDS

Solar Reflectance (ASTM E 1980): 108

FEATURES

- Heat insulation: UV and IR resistant - Reflects heat back to atmosphere & reduces heat conductivity.
- Excellent resistance to re-emulsifying due to stagnant water (ponding) on flat roof/terraces due to continuous heavy rains.
- Flexible: accommodates normal building movements and hairline cracks
- Abrasion resistant: Non-slip and suitable for light foot traffic.
- Long-term Durability: Excellent UV Resistance
- Energy Saving: Low heat transfer into building hence reduction in electrical consumption
- Eco friendly: Non-Toxic water based system
- Allows water vapour to escape from the substrate.

PHYSICAL PROPERTIES

WPM 007 CoolKote	@ 27 ± 1°C
Color	White viscous liquid
Density	~ 1.25 gm/cc
Solid content	~ 62 %
Substrate temperature reduction	Up to 10°C
Tensile strength (As per ASTM D 412)	> 1 N/mm ²
Elongation (As per ASTM D 412)	~ 200 %
Pull Off adhesion strength (ASTM D 4541)	~ 1.5 N/mm ²
Tack free time	4 hour
Recoating time	6 hours

Full Cure	7 days
VOC	1.0 g/l

COVERAGE ESTIMATES

Pack size	Coverage
WPM 007 Primer 5 kgs	9-12 sq.m/kg of primer (refer dilution ratio)
WPM 007 CoolKote 5 kgs & 20 kgs	0.500 kgs/m ² /coat to obtain 250 microns DFT

APPLICATION INSTRUCTIONS

Surface Preparation

Ensure that the roof has sufficient slope to enable water run-off. The surface to be treated must be clean, structurally sound, free from oil, laitance, dust and other barrier materials. Existing old surfaces with brickbat coba or screeds must be checked for soundness and damaged/hollow portions, cracks, sharp edges, etc., and must be repaired using cement mortar modified with E135 (SBR).

Priming

Dilute WPM 007 Primer with water (1.5:1 by volume or 2: 1 by weight). Apply using roller or brush and allow to dry for approx. 3 hrs. In case of high absorbent or porous surfaces, apply two coats for excellent result.

Application

Thoroughly stir the contents of WPM 007 CoolKote for at-least 2 mins using a slow speed (300-400 RPM) drill machine attached with a mixing paddle. Retempering with water should not be done. Keep on stirring during application to maintain a homogeneous consistency.

Apply WPM 007 CoolKote on the primed surface using a brush or roller maintaining the prescribed consumption to ensure uniform coating thickness. Allow the first coat to dry for 5-6 hrs

Apply the second maintaining the same coverage as the first coat and in perpendicular direction to prevent any untreated/uncoated areas. Allow to dry for 5-6 hrs before foot traffic is permitted.

Note:

- a) DECKWEB (non-woven glass filament reinforcement cloth) is recommended to be sandwiched on the wet coat before application of the second coat if the coating is being done on a tiled roof or surface with multiple hairline cracks.
- b) If waterproofing properties along with heat insulation is desired, 3 coats of WPM 007 CoolKote is required to be applied. Alternatively, 2 coats of WPM 007 RoofKote (refer TDS for application procedure) followed by 1 coat of WPM 007 CoolKote can also be done.

WPM 007 COOLKOTE

Heat Reflective Coating

Maintenance & re-coating of WPM 007 CoofKote

Any damaged/worn out areas due to extreme temperature variations or long term weathering can be rectified by applying a single coat of WPM 007 CoofKote after sanding and cleaning the surface. Cracks, if any, can be treated by applying 2 coats sandwiched with a layer of DECKWEB.

CLEANING

Wash hands, brushes, rollers, etc with water while the material is still fresh. Remove cured material mechanically.

STORAGE AND SHELF LIFE

WPM 007 CoolKote has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application, the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the product components should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information, please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



ARDEX ENDURA (INDIA) PRIVATE LIMITED

an ISO 9001:2015 & ISO 14001:2015 certified company
Corporate Office & Regd. Office: Unit No. 406 & 407,
"Brigade Rubix" No. 20, HMT Campus,
Yeshwanthpur Hobli, Bengaluru - 560013.
CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500
Email: customercare@ardexendura.com
Website: www.ardexendura.com

Branches

• AHMEDABAD	+919228019132	• GUWAHATI	+917896002188	• MUMBAI	022 65133299
• AURANGABAD	+918605445577	• HUBBALLI	0836 2970505	• MYSURU	0821 2570171
• BENGALURU	+919972922333	• HYDERABAD	+919703250099	• NAGPUR	+919822223743
• BHUBANESHWAR	0674 2578101	• INDORE	0731 4021148	• PUNE	+919881249292
• CALICUT	0495 2740334	• JAIPUR	0141 2392993	• RAIPUR	0771 4038300
• CHENNAI	044 42805544	• KOLKATA	+919831071084	• SALEM	0427 2211454
• DELHI	+9198106 03431	• LUCKNOW	0522 4043251	• TRIVANDRUM	0471 2598648
• ERNAKULAM	0484 2341044	• LUDHIANA	0161 2532170	• VIJAYAWADA	+918688354587
• GOA	0832 2750992	• MANGALURU	0824 2442176	• VISAKAPATNAM	0891 6469499