

CIKOthermo Proof

Solar Heat Reflecting Waterproof Elastomeric Coating

Description

CIKOthermo Proof is pure acrylic polymer based reflecting paint for roof and exterior walls providing an elastomeric and high build coating layer. The high quality titanium dioxide pigment provides the cooling effect of the material by reflecting more than 80% of the coming solar. This will reduce heat transmission inside the room. The cured CIKOthermo Proof also acts as high performance waterproof membrane.

Properties

- Easy application.
- High elasticity: more than 2.5mm crack bridging capacity.
- UV Resistance
- Excellent resistance to carbon dioxide, acid rain, and alkali solution.
- Save energy and utility costs by maintaining temperature inside the room. When applied on exterior sidewalls and roof it reduces energy cost approximately 30%.
- Excellent resistance to dirt pick up
- Can be tinted with good quality water based colourfast pigment paste.
- Excellent adhesion with most of building material.

Application area

CIKOthermo Proof is used for heat insulation and waterproofing of:

- Commercial and industrial buildings.
- Metal Roof
- Slope concrete
- Terrace and walls

Physical properties @ 25 °C

Appearance of dry film	White, Grey. Other colour may be available on request
Drying time at 30 °C, RH 65%	12 hours
Solid content by volume	60-65 %
Elongation at 14 days ASTM D 412	≥150 %
Tensile strength at 14 days, ASTM D 412	>2 MPa
Hardness Shore A, ASTM D 2240	>40
QUV Resistance, ASTM G 154, 1000 hours	No crack, No colour change
Pull off Adhesion at 14 days, ASTM D 541	>1.5 MPa (Concrete failure)
Fungi Resistance ASTM G21	Pass
Thermal Conductivity ASTM C518-17	0.01 W/m.K
Thermal Resistance ASTM C518-17	0.065 m ² .K/W

Coverage

To achieve high thermal resistance, CIKOthermo Proof is recommended to be applied at a consumption rate of 2 to 2.1 kg/m² achieving 1mm dry film thickness.

Note: The coverage depends on the substrate condition and the floor condition, finish and pavers absorption.

Consult our technical service department for assistance.

Application instructions

Surface preparation

The surface should be free from dust and loose particles. Remove all traces of formwork, release agent, grease, efflorescence, laitance and other contaminant that may prevent proper adhesion.

Remove organic material by scraping, brushing or high pressure water cleaning, and spores should be treated with a suitable fungicide-sterilizing agent and carefully rinsed.

Rectify depression / honey-comb (if any) /cracks in the surface by using CIKO repair material

Priming

On the clean dry surface apply CIKOprimer AC as primer by using brush or proper spray machine.

For porous substrates use CIKOrepell SS, a silane siloxane primer which penetrates deeply into the porous substrates and reacts to produce a bonded hydrophobic lining to pores.

Apply the coating material immediately after the primer is dry to avoid contamination to the primed areas.

Application

After applying the primer coat, allow it to reach touch dry for 2-3 hours.

Properly mixed material of CIKOthermo Proof should be applied using brush or roller to a thickness of 300 microns per coat (0.375 to 0.4kg/m²). Allow it to dry for approximately 4-5 hours (footprint should not be observed). Second coat is to be applied vertically to the first coat.

Two coats are enough for standard applications but for severe conditions, three or more coats are required to achieve desired results.

Precautions

Prior to application, ensure that:

- Reinforcement rods and other sharp materials should not be dragged over the CIKOthermo Proof membrane, as this can puncture the same. CIKOthermo Proof shall always be used WITHOUT dilution.
- Do not apply coating thickness more than 200 microns in one go. For higher coating thickness apply multiple coats.

- There should not be any rain during and after application of final coating for at least 6-8 hours.
- 24 Hours pond test shall be carried out after 72 hour of final coating application

Packaging

CIKOthermo Proof is available in 20 kg plastic container.

Shelf Life

CIKOthermo Proof has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOthermo Proof should be stored under enclosed shaded area at temperatures between 5 and 40 °C.

Health & safety

CIKOthermo Proof should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

Wide ranges of construction chemical products manufactured by CIKO Middle East, which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

