

CIKOtherm AD

High performance Adhesive for fixing polystyrene foam for EIFS

Description

CIKOtherm AD is a cement based pre mixed adhesive for horizontal and vertical applications of rigid insulation foamed systems on concrete, brick, gypsum and cement surfaces. It requires only addition of water at site for usage. It exhibits good bonding properties to cement substrates and good resistance to water and mechanical stress.

CIKOtherm AD is a factory blended powder consisting of cement, adhesion enhancing polymers, graded fine aggregates, water retention agent, rheology modifier etc.

Properties

- Single component.
- Easy to mix and use.
- Good slip resistance.
- Provides good workability and open time.
- Excellent bond strength to cement based substrates and polystyrene foams.
- High water and thermal resistance

Application area

CIKOtherm AD is a high quality adhesive that can be used for interior and exterior applications for fixing foamed polystyrene board for E.I.F.S (External Insulation Finish Systems)

Applicable standards

CIKOtherm AD complies with the minimum requirements of ETAG 004:2000

Physical Properties

Form	Powder
Colour	Grey or White
Fresh Density	1.87±0.05 Kg/L
Pot life @ 25°C	6-8 hours
W/P ratio	0.2
Open Time @ 25°C	10-15 mins
VOC EPA 24	<0.1g/L

Tensile Adhesion Strength @ 28 days (Standard Condition)	>0.1 (to Foam)	MPa
	>0.25 (to substrate)	MPa

Coverage

Each bag of 25 kg CIKOtherm AD provides 16 L fresh material giving coverage as below table

6mm thick solid bed	2 to 2.5m ²
4mm thick solid bed	3.5 to 4 m ²
2mm thick solid bed	7.0 to 8.0 m ²

Coverage rate may vary depending on substrate conditions and finish. Bedding thickness can be maintained from 2mm to 6 mm.

Application instructions

Surface preparation

The concrete, masonry, brick or block surface should be free from dust and loose particles. In case of traces of oil and grease, the surface shall be treated by acid etching or sand blasting. Curing compounds and sealers, if present, must be removed by mechanical means. On ensuring a sound and clean substrate, wet the surface with clean water just before application of CIKOtherm AD.

Mixing

CIKOtherm AD should be mixed with 5.0 L of water for each bag of 25kg. Use a heavy duty slow speed drill-paddle assembly for mixing. The properly mixed material should be thick, trowel able and of lump free consistency.

Note: In hot weather application, use chilled water to extend the open time of the mixed material.

Application method

Spread the mixed material over the whole area of the insulation board to a uniform thickness. Comb the applied surface using a semi-notched trowel without holding at too flat angle. Trowel off the edges and Press firmly the insulation while aligning. Use emery board for board fixation and ensure that the board is firmly bonded to the substrate.in order to prevent the formation of thermal bridges, thoroughly remove

CIKOtherm AD between board joints or joints immediately.

Packaging

CIKOtherm AD is available in 25kg moisture resistant bags.

Shelf life

CIKOtherm AD has a shelf life of 12 months in un-opened bags and if stored in accordance with CIKO instructions.

Storage

CIKOtherm AD should be stored under enclosed shaded area, in dry conditions away from humidity and protected from extreme temperatures and direct sunlight.

Precautions

- Immediately place the insulation board on the substrate after spreading CIKOtherm AD. Do not allow the adhesive to form a skin before positioning the insulation board on the substrate as it will affect the bond strength.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/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

A wide range of construction chemical products are 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



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