

# CIKOtherm Base



## Cement Based single component, polymer modified base coat for EIFS

### Description

CIKOtherm Base is a single component cement based pre mixed reinforcement base coat used for glass fibre mesh installation in E.I.F.S. It requires only addition of water at site for usage. It has elastic, crack proof and water-resistant properties in addition to mechanical stress resistance.

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

### Properties & Advantages

- Single component system.
- Easy to mix and use.
- Good elastic property and impact resistance
- Provides good workability and open time.
- Excellent bond strength to polystyrene foams and all types of glass fibre mesh
- High water and thermal resistance

### Application Area & Uses

CIKOtherm Base is a high-quality reinforcement base coat that can be used for interior and exterior applications for fixing glass fibre mesh over the surface of polystyrene foam boards in E.I.F.S (External Insulation Finish Systems)

### Applicable standards

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

### Physical properties

Form	Powder
Colour	Grey or White
Fresh Density	1.9 ± 0.1 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

Water vapour transmission EN15148:2000	0.2kg/m <sup>2</sup> /h <sup>2</sup>
Tensile Adhesion Strength @ 28 days (Standard Condition)	>0.1 MPa (to Foam)

### Coverage/ yield and recommended thickness

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

6mm thick solid bed	2.3 to 2.5 m <sup>2</sup>
4mm thick solid bed	3.5 to 4 m <sup>2</sup>
2mm thick solid bed	7.0 to 8.0 m <sup>2</sup>

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

### Application Instructions

#### Surface preparation

The foam board surface should be free from dust and loose particles. In case of traces of oil and grease, the surface shall be treated.

#### Mixing

CIKOtherm base 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 of 2 to 3 mm. immediately lay and embed the mesh cloth once the initial base coat starts to take up. Apply a second coat of CIKOtherm base to produce a sandwich approximately 6 mm thick totally encapsulating the mesh cloth. At insulation board joints, individual meshes should overlap each other by 10 to 15 cm on each side. At corner of doors, windows and other opening, strips of fibre mesh (20\*40 cm) should be placed diagonally across the corners to protect against the formation of cracks where local stresses are expected to be high.

## Packaging

CIKOtherm Base is available in 25kg moisture resistant bags.

## Shelf life

CIKOtherm Base has a shelf life of 12 months in unopened bags and if stored in accordance with CIKO instructions.

## Storage

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

## Precautions

- Use additional fibre mesh as instructed in areas with large local stresses, corners and insulation board joints.

## 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

## Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.



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