

CIKOblock Fix



Cementitious adhesive mortar for light weight blocks and thin laying systems

Description

CIKOblock Fix is ready mix mortar that requires only addition of water at site. It is specially formulated to fix autoclaved aerated concrete blocks with a thickness ranging from 2 to 5 mm.

CIKOblock Fix is composed of blend of cement, well graded sand and selected polymers additives to improve workability, open time, bonding and water retention.

Benefits & Advantages

- Good bonding strength & water retention
- Extended open time.
- Ready to use one component material requiring only addition of water on the site
- Suitable for external and internal areas.
- Suitable for normal blocks, light weight blocks, AAC panels and bricks.

Application Area/Uses

CIKOblock Fix is a high quality block adhesive that can be used for interior and exterior applications such as but not limited to:

- A mounting mortar for regular and light weight blocks and bricks.
- Permanent fixing of medium sized blocks and bricks.
- Can be used for vertical and horizontal surfaces.

Coverage

Each bag of 25 kg CIKOblock Fix yields 16 L to 17 L of fresh mortar that covers for thin-bed applications as follows.

5mm thick solid bed	3.2 to 3.4 m ²
4mm thick solid bed	4 to 4.25 m ²
3mm thick solid bed	5.3 to 5.6 m ²
2mm thick solid bed	8 to 8.5 m ²

Physical properties

Form	Powder
Colour	White or Grey
W/P	0.18-0.2
Density [fresh]	1.8 ± 0.05 g/cm ³
Compressive Strength ASTM C109	≥4 N/mm ² @ 3 days ≥6.5 N/mm ² @ 7 days ≥10 N/mm ² @ 28 days
Open time @ 25 ⁰ C 3 mm thickness	≥15 minutes
Pot life @ 25 ⁰ C	Approx. 2 hours
Pull off Bond strength BS EN 1015-12	≥1MPa @ 28 days

Application instructions

Surface preparation

Blocks and bricks should be clean sound and free from any powder, greasy or oily matter. The substrate must not be over hot or cool. The blocks should be damped with water before installation. Excess of water should be removed.

Mixing

A proper mixing is done using a medium to high speed electric drill mixer assembled to the appropriate paddle.

Add 4.5-5 litres amount of clean, potable water to a clean container. Then add the 25 kg powder slowly and continuously while mixing. Mixing time should be at least 3 minutes until a uniform, homogeneous and lumps free consistency is achieved.

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

Application

Spread the material at a uniform thickness as required based on the block size. Place the blocks firmly over the applied area and maintain a proper level. Do not over spread the mortar taking in consideration the open time of the material. The ideal application temperature is 5⁰C to 35⁰C.

Recommendations

- Material shall be applied in the thinnest layer possible to ensure thermal insulation continuity of AAC panels system.
- Keep a gap of almost 1 to 2 cm between the top of block wall and bottom of roof slab to prevent and avoid formation of cracks in wall. A sealant or compressible material must be applied in the gap.

Curing & protection

Protect newly applied mortar from direct sunlight, wind and harsh conditions. Curing with water will help to gain better strength the first 2 days.

In winter protect the material for 2 to 3 days prior proceeding with subsequent applications.

Packaging

CIKOblock Fix is available in 25 & 50 kg moisture resistant bags.

Shelf life

CIKOblock Fix has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOblock Fix should be stored under shaded area between 5⁰C and 40⁰C.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powders 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