

CIKOtile 2K



(Previously known as CIKOtile 2K Thin)

Two components, Cement based and liquid latex/polymer modified tile adhesive

Description

CIKOtile 2K is a two component polymer latex modified cementitious tile adhesive for horizontal and vertical applications on concrete and mortar substrates. It exhibits excellent bonding properties to concrete substrates and compatible with most common types of absorbent and non absorbent tiles.

CIKOtile 2K is a factory blended product made of powder part consisting of cement, graded aggregates, water retention agent, rheology modifier and a second liquid component as adhesion enhancing polymer.

CIKOtile 2K is suitable for bedding thickness ranging between 1.5mm and 20 mm.

Properties & Advantages

- Two components system, easy to mix and apply
- Good slip resistance.
- High resistance to moisture, water, heat and freeze-thaw cycles
- Provides good workability and extended open time at standard temperatures
- Excellent bond strength
- High resistance to fungal growth
- Compatible with absorbent and non absorbent tiles
- Suitable to be applied over plaster, concrete, screed, insulation boards, water resistant gypsum and cement boards.

Application area

CIKOtile 2K is a high quality tile adhesive that can be used for interior and exterior applications for fixing ceramics, mosaics, marbles, stone, and porcelain and glass tiles to cement substrates. It is particularly suitable for applications demanding high resistance to moisture and water such as in case of fully submerged conditions like swimming pools, Jacuzzis, etc.

Applicable standards

CIKOtile 2k complies with minimum performance requirements of:

- ANSI A118.4
- BS EN 12004 & ISO13007-1 code C2TE-S1.
- Qatar Construction Specifications QCS.

Physical properties

Form	Two component system Part-A : Powder Part-B : Liquid
Colour	Grey or White
Mixed Density	Fresh 1.97±0.03 g/mL
Slip Resistance	BS EN 1308 ≤0.2mm /ISO13007-2
Transverse deformation	ISO13007-2 2.5-2.6 mm
Open Time	≥1.2N/mm ² @ 10 mins
Tensile adhesion strength-BS EN:1346 /ISO13007-2	≥1.1N/mm ² @ 20 mins ≥1.0N/mm ² @ 30 mins
Tensile Strength 1348/ ISO13007-2	Bond BS EN ≥1.2N/mm ² Initial Adhesion ≥1N/mm ² Water immersion ≥1.3N/mm ² Heat Ageing ≥1.2N/mm ² Freeze-Thaw Cycle
Compressive strength C109 @ 28 days	ASTM ≥ 25 N/mm ²

Coverage

A 30kg Kit of CIKOtile 2K yields 15 to 15.5 L and provides a theoretical coverage as follows.

3*3 mm notched	10 to 10.3 m ²
4*4 mm notched	7.5-7.75 m ²
10*10 mm notched	3-3.1 m ²
20*20 mm notched	1.5-1.55 m ²

Coverage rate may vary depending on substrate conditions and finish.

Application instructions

Substrate and tiles preparation

The substrate 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. Upon ensuring a sound and clean substrate, wet the substrate surface and tiles' bottom surface with clean water just before application of CIKOtile 2K.

Mixing

Pour the Liquid component of CIKOtile 2K in a clean container of minimum capacity 20 L, dispense the powder component gradually while mixing using heavy duty adjustable speed drill-paddle mixer assembly. Mix at least 3 minutes at high speed so that the mixed material attains a thick, trowel-able and lump free consistency. Slight amounts of water can be added to achieve required consistency.

Application method

Spread the mixed material over the dampened area to a uniform thickness. Comb the applied surface using a semi-notched trowel. Press the tile firmly to the adhesive bed in perpendicular motion to notched lines and ensure that the tile is firmly bonded to the substrate. Adjust the tile within 10 to 15 minutes after initial positioning.

At high ambient temperatures, it is advisable not to increase the spreading area over the surface so that installation of the tiles takes place within the open time of the adhesive (20 minutes) to prevent skin formation and maintain proper bonding performance.

Packaging

CIKOtile 2K is available in 30 kg kit/set consisting of 25 kg powder [Part-A] and 5.0 kg liquid [Part-B].

Storage

CIKOtile 2K should be stored under enclosed shaded areas at temperatures between 5°C and 35°C.

Shelf Life

CIKOtile 2K has a shelf life of 12 months when stored in its unopened original packaging as per CIKO's recommendations.

Precautions

- When used on gypsum surfaces, light weight panels, light weight blocks, cement board or any other substrates having high surface absorption, It is recommended to seal the substrate using CIKObond PVA or CIKObond AC and allow drying prior to the application.

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 grouts
- 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