

CIKObond AC

Bonding agent and waterproofing additive for cementitious systems

Description

CIKObond AC is an acrylic polymer emulsion based liquid bonding admixture to enhance physical properties such as bond strength, water resistance and flexibility for cement and gypsum mixes.

CIKObond AC is blend of selected grade of acrylic latex emulsion, adhesion promoter, wetting agent, antifungal agent etc. to attain the quality of an ideal bonding and waterproofing additive for cementitious systems.

Properties

- Single component additive and easy to use.
- Non-yellowing and has excellent resistance to ultraviolet degradation.
- Resistant to alkali and ensures compatibility to all types of cement.
- Desired properties such as water proofing, high bond strength and flexibility can be achieved.
- Considerable reduction in shrinkage cracks.
- As a bonding agent for pre-mixed repair mortar.

Application area

CIKObond AC is a high quality additive and can be used for interior and exterior applications.

- Suitable for all kinds of cement plaster in costal area.
- Bonding agent between old concrete to new concrete in lap joint.
- Additive for waterproofing and repair mortars.

Applicable standards

- CIKObond AC complies with ASTM C 1059 Type II.
- CIKOcure AC complies with Qatar Construction Specifications QCS.

Physical properties

Form	Liquid
Colour	White
Specific gravity	1.02±0.005 @ 25 ^o C
Toxicity	Non-toxic
Chloride content	Nil to BS 5075
Flammability	No tendency to flash
Bond strength ASTM C1042	>6 MPa

Coverage/Dosage

The yield and coverage of CIKObond AC will depend on the type of application.

Bonding agent / primer	5 to 7 m ² per litre
Additive as slurry / waterproof coat	50% by weight of cement
Additive for repair mortar	15% by weight of cement
Additive for hard floor topping	20% by weight of cement

Application instructions

Surface preparation

Clean the surface to make it free from dust, oil, loosely adhered particles, paint stains, efflorescence and other contaminations. The surface should be abraded or sand blasted to provide a rough surface to receive the repair mortar.

Mixing

Slurry Seal:

Mix CIKObond AC with cement at the ratio of 1:1 and add required amount of water to achieve paint consistency. It is recommended to use heavy duty slow speed drill-paddle assembly for mixing large volumes.

Mortar and hard floor-topping:

Mix CIKObond AC at the rate of 15 to 20% by weight of cement and add required amount of water to achieve mortar consistency. For floor topping, pea gravel can be mixed along with cement and sand. It is recommended to use heavy duty slow speed drill-paddle assembly for mixing large volumes, to get a homogenous and lump free mix.

Application method

Slurry Seal:

Apply the mixed material using brush or roller on cleaned and dampened surface.

Mortar and hard floor topping:

Apply the mixed material using trowel on cleaned and dampened surface. Keep trowel clean and wet to prevent sticking of material. Do not over trowel.

Curing:

Repair mortar and floor topping must be cured as per standard curing practices.

Packaging

CIKObond AC is available in 20litre pails and 200 litre drums.

Shelf Life

CIKObond AC has a shelf life of 12 months in un-opened packs and if stored in accordance with manufacturer instructions.

Storage

CIKObond AC should be stored under enclosed shaded area at temperatures between 5 – 35⁰C.

Precautions

- CIKObond AC should not be used in temperature below 5⁰ C

Health & safety

CIKObond AC should not come in contact with eyes or 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

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