

# CIKOcoat FC *(Previously known as CIKOcote FC)*

Smart Chemical Solutions



سيكو الشرق الأوسط  
MIDDLE EAST

## Single component, Polymer Modified Cementitious Fairing Coat

### Description

CIKOcoat FC is a ready to use cement based fairing coat material for interior and exterior use to resurface concrete and plaster. CIKOcoat FC can be applied from featheredge to 5mm thick for overhead and vertical repair surfaces.

CIKOcoat FC is a balanced blend of cement as binder, graded silica sand, cement replacements, rheology modifiers and other chemical additives. CIKOcoat FC is a ready to use material and need only addition of water at site to produce a high performance fair coat material.

### Properties

- Single component system and easy to use.
- General re-profiling
- Resistant to chlorides and carbon dioxide.
- Can be applied to a thickness from featheredge to 5mm.
- Frost and salt resistant; suitable for all climates.

### Application area

- All types of restoration work involving repair on concrete and plaster.
- Vertical and overhead repairs.
- Building repairs in coastal areas.
- Filling blowholes and re-profiling of concrete surfaces.
- Potable water tanks.
- Pre-cast concrete parts.
- For repairing honeycombs in concrete.

### Applicable standards

- BS EN 1504-3 Class R1
- Complies with Qatar Construction Specifications QCS.

### Physical properties

Form	Powder
Colour	Cement grey (standard)
Pot life	>45 min @ 25 <sup>o</sup> C
Fresh Density	1745 ± 10 kg/m <sup>3</sup>
w/p ratio	0.35-0.38
Adhesion bond strength BS EN 1015-12 @ 28 days	>1MPa
VOC (USEPA- 24)	0.01g/g
Compressive strength @ 28 days ASTM C109 (W/P=0.35)	>10MPa
Length change of hardened material ASTM C157 @ 28 days	0.09% (less than 250 microns)

### Coverage / Yield

25 kg bag of CIKOcoat FC mixed with the allowable W/P ratio yields to 19 to 20 Litres of fresh material.

Note: The coverage depends on the substrate condition and finish. Consult CIKO technical service department for further guidance.

### Application instructions

#### Surface preparation

Clean the concrete surface to remove loose and unsound materials by water blasting or any other suitable means. Presence of oil or grease must be cleaned by detergent scrubbing. Sand or grit blasting can also be done to clean and roughen the surface. Wet the surface with ample water before application of fairing coat.

#### Mixing

CIKOcoat FC is a ready to use material needing only 8.75 to 9.5 litres of water for mixing. Dispense CIKOcoat FC slowly and gradually into the mixing vessel containing approximately 80 % of total water and start mixing using a heavy-duty slow speed drill-paddle assembly. Mix the mortar for 3 minutes to get a homogenous, lump free mix.

Add the balance 20% of water and continue mixing up for a total duration of 5 minutes. Assure that the mixture is homogeneous and free of powder lump prior proceeding with the application.

Small quantities can be mixed manually with a spatula or other suitable hand mixing tools adhering to the allowable W/P ratio range.

Note:

- In hot weather application, use chilled water to extend the open time of the mixed material.
- In particular cases, either project specifications or end user requirements, it is applicable to mix CIKOcoat FC with CIKObond AC at a specific ratio. Consult CIKO technical Service department for further support.

#### Placing

Place the mixed mortar on cleaned surface and fill the area up to 5mm using a steel trowel. Finishing must be done in similar way as that of normal plaster.

#### Curing

No curing is required under moderate ambient condition. However, under rapid drying conditions, curing with CIKOcure AC is required. CIKOcure AC should be sprayed in a continuous film. Large area should be cured as trowelling progresses.

In very fast drying condition, supplementary curing with polyethylene sheet is advisable.

#### Precautions

- Application temperature must be between 5<sup>o</sup> C - 35<sup>o</sup> C.
- Do not re-temper the material after initial mix.

#### Packaging

CIKOcoat FC is available in 25kg moisture resistant bags.

#### Shelf life

CIKOcoat FC has a shelf life of 12 months if stored in accordance with CIKO instructions.

#### Storage

CIKOcoat FC should be stored under cool enclosed shaded area between 5 and 40<sup>o</sup> C.

#### 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.*

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- 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