

Cicorepair[®]FC

Polymer Rich Cementitious Fairing Coat

DESCRIPTION

Cicorepair[®]FC is a polymer rich cementitious fairing coat that has been designed to smooth the roughness of concrete and even masonry surfaces. It's been adjusted to be used for relatively small thicknesses not more than 3 mm, meanwhile, it can be used for filling holes up to 10 mm in depth. For thicker layer repair, it's recommended to use other suitable products of the Cicorepair[®] range. Cicorepair[®]FC can be applied using plastering tools over damp surfaces without priming.

USES

- Fair facing of new concrete in new structures.
- Smoothing rough surfaces of concrete, brickwork, or masonry.
- Exterior and interior repair.
- Fine GRC repairs.

ADVANTAGES

- Obtains high durability for structures.
- No primer required.
- Good adhesion to prepared concrete.
- Minimizes carbonation and chloride attack on steel reinforcement.
- Easy to apply, just add water.
- Minimizes chemical attack over concrete.
- Non-toxic.
- Compatible with all Cicorepair[®] products.

PACKAGING

20 Kg bags

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 2°C to 55°C.

TECHNICAL PROPERTIES

Form	Grey Powder
Wet Density @ 25°C	1840±50 kg/m ³
Pot Life @ 25°C	4±15 min.
Touch dry @ 25°C	7 hrs.±15 min.
Yield Liters	14.1

MECHANICAL CHARACTERISTICS

Compressive Strength @ 30% W/P (ASTM C109)	
1 day	9±1 N/mm ²
7 days	16±1 N/mm ²
28 days	23±1 N/mm ²
Flexural Strength @ 30% W/P (ASTM C348) @28 days	
	4.1±1N/mm ²
Tensile Strength @ 30% W/P @28 days	
	2.5±0.25 N/mm ²
Shear bond to concrete (BS 6319) @28 days	
	20±2 N/mm ²

APPLICATION INSTRUCTIONS

Surface Preparation

All Concrete substrates should be sound, clean, and free from oil, grease, and all curing or release agents. Any loose or weak concrete should be removed using hand tools or light mechanical tools (heavy tools are not recommended). Cicosurface[®]Degreaser can be used to remove any greasy or oily contaminations. All concrete surfaces should be wetted by water reaching SSD condition (Saturated Surface Dry) prior to applying Cicorepair[®]FC.

Priming

Cicorepair[®]FC doesn't need the use of a priming or bonding agent. However, the concrete surface should be saturated with water prior to applying the material.

Mixing

Use a clean suitable container (not less than 20 liters volume) for one bag mixing using a high torque medium speed mixer and suitable pedal for about 60 seconds. [Mixing more than one bag at once is not recommended] Always add powder to clean water. The advisable quantity of water is 5.75–6.25 liter/bag. It is recommended to keep the mixed mortar temperature in the range of 10–30°C while storing, mixing, and placing should be shaded all the time.

Application

Apply Cicorepair®FC by steel trowel directly over the damp surface, to make a layer that is no more than 3 mm in thickness. For GRC fine repair works, it is recommended to replace 1.5 liters of mixing water with the same volume of Cicobond®SBR to enhance the bonding strength and to be more compatible with the GRC mixes properties.

Curing

Cicorepair®FC doesn't need curing in normal conditions. However, in windy, very dry, or very hot climates, spraying either diluted Cicobond®ACR or Cicobond®SBR as a curing compound is recommended.

CLEANING

Tools contaminated with Cicorepair®FC may be cleaned using clean water. Hard material can be removed by hand tools or light mechanical means.

PRECAUTIONS

Health And Safety

Cicorepair®FC is alkaline, non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.