

Corrocrete FC

Cementitious rendering mortar / fairing coat

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Product Features

Corrocrete FC is a single component, pre-mixed and bagged blend of cement, fine aggregates & special polymers, that produce a smooth mortar consistency that can be applied both horizontally or vertically at thicknesses of 3 – 10 mm, to fill pin holes and reprofile concrete or masonry.

Corrocrete FC is non metallic, free from chlorides and provides an excellent finish that can be painted on directly.

Typical Uses

Corrocrete FC is typically used as a thin render to masonry and concrete surfaces or filling of pinholes, or irregularities in concrete particularly to hide shutter lines, blow holes and other imperfections in walls, that may otherwise reflect through or inhibit the subsequent applied finishes.

Corrocrete FC is compatible with **Corro** range acrylic, epoxy, polyurethane or polyurea coatings.

Technical Data

Properties	Test Standards	Typical Values
Appearance		: grey powder
Particle size		: 0.04 - 0.50 mm
Apparent powder density		: 1.35 ± 0.10
Water ratio		: 22 - 24% (5.5 - 6 litres of water per 25 kg bag)
Pot life		: 1 - 2 hours
Pull off strength @ 28 days	BS 1881 Part 207 : 1992	: >1 N/mm ²
Compressive strength @ 28 days	BS EN 196-1 : 2005	: >30 N/mm ²
Flexural Strength		: 3 N/mm

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

Long term durability and function can only be achieved with good preparation to give a strong mechanical bond to the substrate and complete void filling.

Mechanically prepare concrete surfaces to remove laitance, curing compounds and other loose materials to provide a mechanical key for **Corrocrete FC**, ensuring the prepared surfaces are clean and free from contamination such as dust, oil, grease, organic growth & release agents.

New concrete surfaces to receive **Corrocrete FC** can be finished using a wood or plastic float to achieve a textured finish therefore reducing the level of additional preparation.

Priming

Concrete

Thoroughly soak the existing concrete with clean water for 1 – 2 hours. Remove all standing water, ensuring a saturated surface prior to the application of **Corrocrete FC**.

DO NOT LET THE SUBSTRATE DRY OUT.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Accurately measure 5.5 - 6 litres of drinking quality water and place in a suitable empty container with sufficient volume to accommodate the mixed material.

Slowly add the powder to the water and mix continuously for 4 - 5 minutes using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved.

Application

Apply the mixed material onto the prepared surface using a steel trowel, plastic or wood float. Spread out and compact to fill all holes & irregularities or provide a render to a maximum thickness of 10 mm.

Finish with a plastic float, wood float or steel trowel depending on the surface texture required.

Subsequent layers can be applied to the first layer after approximately 12 hours. The first layer should be scratch keyed and pre-soaked with clean water to assist with bonding.

Expansion joints must be reflected through the **Corrocrete FC** and preferably sealed with a sealant from the **Corroseal** range.

Curing

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the product are achieved.

The duration for curing will depend on the applied thickness and ambient conditions. For thickness up to 10 mm, we recommend curing for at least 3 – 4 days using water, or one of the **Corrocure** range, applied immediately after initial hardening of the product.

Please consult with Corrotech regarding compatibility of the **Corrocure** range with the floor finishes to be used.

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Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

Do not part mix under any circumstances.

Additional coating protection should be applied if the product is exposed to chemicals.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrocrete FC pack size: 25 kg. Coverage rate approximately 13 - 14 litres yield per bag, or 1.3 kg per m² per mm thickness

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrocrete FC has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.