

Technical Data Sheet - TDS



RocBuild FC

Single component, polymer Modified fairing coat

PRODUCT DESCRIPTION

RocBuild FC is a single component, acrylic polymer modified fairing coat designed to fill pores, blowholes, minor honeycombs on a concrete surface. This can also be used as a skim coat prior to the application of protective coatings. It is a shrinkage compensated crack free material, which can be applied as thin surface coats. Surface irregularities of up to 3.5 mm can be filled with a scrape coat application.

The use of specially selected and formulated polymers means subsequent curing of **RocBuild FC** is not normally required for internal applications.

FIELDS OF APPLICATION

As a fairing coat to cover and make good irregular finishes to concrete surfaces. Filling blow holes & small areas of honeycombing. As a skim coat prior to application of protective coatings and paint systems. Can be used as a skim coat and as an aesthetic mortar. Smoothen out damaged patches on concrete surfaces due to shutter movement and grout loss. As fairing coat prior to the application of protective coatings.

ADVANTAGES

- ▶ Shrinkage compensated and crack resistant.
- ▶ Single component, simple to mix & use. Priming not required.
- ▶ Excellent adhesion & flexibility to damp concrete substrates.
- ▶ Pre-bagged and factory blended to avoid site batching errors.
- ▶ Contains no chloride based additives.
- ▶ Suitable for new and old concrete.
- ▶ Requires only on site addition of water.
- ▶ Smooth, easily applied and flexible.
- ▶ Low permeability. Resistant to the attacks of chlorides and other mild chemicals.

TYPICAL PROPERTIES

Form	Powder
Pot life	30-40 mins@30°C
Wet Density	1.8g/cc±0.05
Application Temp:	30+/-10°C
Drying Time	Min 6 hours
Recommended thickness	1- 3mm



Bond Strength ASTM D4541	Min 1.5N/m ²
Compressive Strength BS 6319-2	Min 25N/mm ² @28days
Drying Shrinkage	< 500microstrain @28days
Water Permeability @5 bar pressure, [mm	Less than 10

DIRECTIONS FOR APPLICATION

Surface Preparation: The concrete to be treated must be free from dust, loosely adhered material, plaster and cement droppings, grease oil and paints etc. On old concrete ensure the substrate is structurally sound prior to application. Roughen the surface by sand-blasting or stone rubbing to remove surface laitance. Cleaned areas should be blown clean with compressed air prior to soaking with clean water.

Mixing: Only mix as much **RocBuild FC** as is required for immediate use. Small quantities may be mixed by hand, however a forced action mixer should be used for full bags. For part bag mixing, use 3 parts powder to 1 part water, by volume. Always add powder to water. Care should be taken to mix the material thoroughly. For full bag quantities, use 7.0+/- 0.5 litre per 25 kg bag. Water should be added to the mixer first, the powder should be added whilst the mixer is turning. High ambient temperatures require the maximum water addition rate. Do not however exceed 7.5 litre/ 25 kg bag or add additional water once mixing is completed.

Application: Only apply **RocBuild FC** onto prepared and thoroughly soaked substrates. Standing water should be however be removed. Apply using a steel trowel from a feather edge up to a maximum of 3.5 mm. For blow holes, a maximum depth of 10 mm is recommended. All blow holes, voids and imperfection should be filled prior to application as a fairing coat. Use a minimum amount of working and allow to partly set prior to final finishing. During summer months storing the product in shaded areas and using chilled water will aid application and mixing.

Curing: Due to the thin section nature of this product protection during hydration is required and water curing is recommended in external and hot weather applications. The repaired area should be cured with wet hessian and polyethylene sheets for 3 days before over-coating with **RocCure CL**. Where the use of water is not practical,

protect from drying winds and sun by curing with **RocCure CL** and cover with polyethylene sheets.

Over coating: If required **RocBuild FC** may be over coated after approx. 3 days. Use **RocCote** protective coatings

PACKAGING & STORAGE

Consumption rates vary according to the surface irregularities of the concrete to be made good. As a fairing coat on even surfaces at 2mm thickness, a coverage rate of 8 m²/ 25 kg bag will be achieved.

PACKAGING & STORAGE

RocBuild FC is available in 25 kg. bags and should be stored as cement under dry frost-free conditions in shaded warehouses. Shelf life will be 9 months.

HEALTH & SAFETY

As with all GIC chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **RocBuild EL**--High build epoxy lining for chemical & abrasion resistance Applications
- ▶ **RocBuild MC**--Shrinkage compensated, polymer modified, micro concrete
- ▶ **RocBuild TG** --Single component , hot climates ,concrete and masonry Reinstatement Repair mortar
- ▶ **RocCoat NT** --Non-toxic, epoxy resin coating for potable water applications
- ▶ **RocBond AR**--Single component acrylic bonding agent and Primer
- ▶ **RocBuild HL**--Lightweight High Build Cementations' repair mortar
- ▶ **RocBuild NF**--Multi purpose, non slump adhesive & repair putty
- ▶ **RocBuild ZP** --Single component, epoxy zinc primer for steel
- ▶ **RocCoat PE** -- Solvent free pitch extended epoxy resin protective coating
- ▶ **RocBuild FC**--Single component, polymer Modified fairing coat
- ▶ **RocBuildHS**--Shrinkage compensated,High Strength, Fibre Reinforced, Structural Repair mortar

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer? Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and CIL makes no claim that these tests or any other tests, accurately represent all environments.

CHEMCON INTERNATIONAL LLC

P: 12360,Thoban Fujairah, United Arab Emirates T : +971 6 882 0024

E : info@chemconinternational.com W : www.chemconinternational.com