

Renderoc FC Architectural

Fairing mortar used to reproduce the appearance of a Class 1 off form concrete finish – (0 - 3 mm thickness)

USES

Renderoc FC Architectural is designed as an applied finish to masonry or porous surfaces to reproduce a Class 1 off form concrete appearance when applied by an experienced contractor.

ADVANTAGES

- Can be applied to lightweight construction materials such as FC compressed sheet
- Can be applied to solid masonry surfaces such as clay brick, concrete blocks, in-situ & pre-cast concrete surfaces
- Pre-blended to overcome site-batched variations - only the site addition of clean water is required
- Contains no chloride admixtures

DESCRIPTION

Renderoc FC Architectural is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent off-form concrete appearance.

The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics, while minimising water demand.

** Please note that for Renderoc FC Architectural to replicate a class 1 off form concrete finish the use of an experienced and skilled applicator should be used. Prior to starting the project, a sample area must be carried out by the contractor to demonstrate to the client that they are capable of achieving the finish required. The use of an experienced contractors should only be used.*

TECHNICAL SUPPORT

Parchem offers technical support to specifiers, end-users and contractors, as well as on-site technical assistance.

DESIGN CRITERIA

Renderoc FC Architectural is designed for vertical and overhead uses as an architectural high quality off-form concrete finish up to 3mm. Renderoc FC Architectural shall be applied in conjunction with a cementitious acrylic render base coat. Consult your local Parchem sales office for further information.

PROPERTIES

The following results were obtained at a water:powder ratio of 0.3 by weight or 1:3 by volume at a temperature of 20°C.

Test method Typical result
Coefficient of thermal expansion:

7 - 12 x 10⁻⁶/°C

Working life:

Approximately 20 minutes**

Setting time (BS 4550):

30 minutes - 1 hour**

Fresh wet density:

Approximately 2000 kg/m³

*** Note: working life and setting time will vary dependent on ambient and substrate temperatures and prevailing conditions.*

SPECIFICATION CLAUSES

BASE COAT

The base coat system to be applied shall be a cementitious acrylic render (such as Unitex) installed as per the manufacturers instruction. Materials from other suppliers must be checked for compatibility prior to use. All materials must be installed as per the manufacturers instructions.

FAIRING COAT

The fairing coat shall be Renderoc FC Architectural, a single component polymer modified cement-based blend of powders to which only the site addition of clean water shall be permitted.

Contractors must carry out on site trials to demonstrate to the client that the desired finish can be achieved prior to commencement.

APPLICATIONS INSTRUCTIONS

PREPARATION

Ensure substrate is securely fixed & rigid to prevent movement.

Clean the surface and remove any dust, unsound material or other contaminants & laitance. The effectiveness of decontamination should then be assessed by a pull-off test.

Renderoc FC Architectural should be applied to a cement-based acrylic render. The base coat must be applied to achieve a smooth & uniform finish in preparation for the Renderoc FC Architectural coat. Allow at least 24 hours for the base coat to dry before applying the Renderoc FC Architectural coat.

MIXING

Care should be taken to ensure that Renderoc FC Architectural is thoroughly mixed. Small quantities (up to 10 kg) can be mixed by hand using a suitable mixing drum or bucket.

Greater quantities should be mixed using a forced-action mixer. Mixing in a suitably sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy-duty drill is an acceptable alternative.

If mixing small quantities by hand, Renderoc FC Architectural should be volume-batched. Add 3 volumes of the Renderoc FC Architectural powder (loose-filled to excess and struck off level with the top of the measuring container) to 1 volume of potable water. Always add the powder to the water. This should be mixed vigorously until fully homogeneous.

For larger volumes, place 4.1 - 4.75 litres of potable water into the mixer and with the machine in operation, add one full 15 kg bag of Renderoc FC Architectural and mix for 3 - 5 minutes until fully homogeneous. Depending on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 4.75 litres per 15 kg bag of Renderoc FC.

Note: In all cases Renderoc FC Architectural powder must be added to water.

APPLICATION

Apply the mixed Renderoc FC Architectural to the base coat by steel trowel up to 3 mm thickness. It should be applied with the minimum of working and be allowed to partly set before finally trowelling to a smooth finish. If a very smooth finish is required, a small amount of water may be flicked on to the surface of the Renderoc FC Architectural with a paint brush prior to final trowelling.

Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

Note: the maximum applied thickness of Renderoc FC Architectural is 3 mm.

LOW TEMPERATURE WORKING

Normal precautions for winter working with cementitious materials should then be adopted. The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

HIGH TEMPERATURE WORKING

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing.

CURING

Renderoc FC Architectural does not require any form of curing in moderate ambient conditions, but under harsh drying conditions curing may be necessary. In this case Renderoc FC Architectural should be cured immediately after finishing in accordance with good concrete practice.

The use of Nitobond AR, sprayed on to the surface of the finished Renderoc FC Architectural in a continuous film is recommended. Large areas should be cured as trowelling progresses (0.5 m² at a time) without waiting for completion of the entire area. In very fast drying conditions, supplementary curing with polythene sheeting taped down at the edges should be used.

In cold conditions, the finished application must be protected from freezing.

OVERCOATING WITH PROTECTIVE DECORATIVE FINISHES

Renderoc FC Architectural may be overcoated with various protective & decorative finishes from the Parchem range of products. Refer to your local Parchem sales office.

CLEANING

Renderoc FC Architectural should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

LIMITATIONS

Renderoc FC Architectural should not be used when the temperature is below 5°C and falling. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation. Exposure to rainfall prior to the final set may result in water uptake and severe reduction in the performance of the hardened product. The product should not be exposed to moving water during or after application.

If any doubts arise concerning temperature or substrate conditions, consult your local Parchem sales office.

Renderoc FC Architectural is not flexible & therefore must be applied to a rigid & sound substrate. Control joints should be reflected through the applied system.

ESTIMATING

SUPPLY

Renderoc FC Architectural: 15 kg bag

COVERAGE AND YIELD

Renderoc FC Architectural: Approximately 9.0 litres / 15 kg bag (3.0 m² at 3 mm thickness)

STORAGE

SHELF LIFE

Renderoc FC Architectural has a shelf life of 12 months if stored correctly.

STORAGE CONDITIONS

Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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