

method statement

Renderoc FC

Section A : General Comments

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (iii) Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.
- (v) Where mixing water is required in the application of a product, it is advised to maintain such water at a maximum of 20°C

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement

| | | |
|------------------------------|---|---|
| <i>Protective clothing</i> | : | Protective overalls |
| | : | Good quality gloves, goggles and face mask |
| <i>Preparation equipment</i> | : | Wire brush |
| | : | Proprietary blasting equipment |
| <i>Mixing equipment</i> | : | Measuring jug |
| | : | 1 KW slow speed drill, 400 or 500 rpm |
| | : | + Fosroc MR4 mortar mixing paddle |
| | : | + suitably sized mixing vessel, for single bag mixing, or |
| | : | Proprietary forced-action mixer for multiple bag mixing |
| <i>Application equipment</i> | : | Hand application trowel |
| | : | Wooden float |
| | : | Steel or plastic finishing float |
| | : | Finishing sponge |

Application - points of note

Fosroc operates a policy to encourage the use, where possible, of registered applicators, since the long term performance of the materials is dependent upon proper application. For contractors who wish to apply the materials themselves Fosroc is also able to offer technical assistance and training, either on-site or at its Training Centre in Dubai.

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Section B : Application Method

1.0 Surface preparation

Attention to full and proper preparation of the substrate is essential for complete repair adhesion.

- 1.1 The surface of the substrate should be thoroughly cleaned to remove all traces of dust, oil, paint, curing compounds, grease, corrosion deposits, algae or any unsound material which might affect subsequent bond between Renderoc FC and the substrate.
- 1.2 Oil and grease deposits are best removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should be assessed by a pull-off test.
- 1.3 The substrate should further be 'roughened' to remove excess laitance, to expose pinholes & blowholes and to provide a mechanical key for subsequent application of Renderoc FC. This is most effectively achieved by the use of proprietary blast media, such that the fine aggregate is exposed but not polished.
- 1.4 Where preparation techniques result in voids of greater than 3 mm depth, it will be necessary to use other Renderoc products to make local repairs before overcoating with Renderoc FC. Such areas, once repaired, will not require additional preparation prior to the application of Renderoc FC.
- 1.5 Immediately prior to application of Renderoc FC, the prepared substrate should be blown clean with oil-free compressed air.

2.0 Substrate priming

- 2.1 All prepared areas should be thoroughly soaked with clean, potable water immediately prior to the application of Renderoc FC, such that the substrate is "saturated surface dry".
- 2.2 Since Renderoc FC is only a surface skim coat, reinforcing steel should not be exposed and will not therefore need priming.

3.0 Mixing

Care should be taken to ensure that Renderoc FC is thoroughly mixed. In all cases the powder should be added to the water and mixed strictly in accordance with appropriate procedure.

3.1 Mixing - small quantities

- a) Small quantities - up to 5 kg - may be mixed manually to a smooth paste consistency.
- b) The mixing ratio, by volume, should be between 3 and 3.5 parts Renderoc FC to 1 part water (depending on the consistency required).
- c) For the single volume water component select a conveniently sized measuring container and fill to the top. Add the measured volume of potable water to the mixing vessel.



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- e) Add the 3 to 3.5 volumes of powder to the water and mix vigorously for at least 3 minutes, until homogenous.

3.2 Mixing - large volumes

- a) For larger volumes of material it will be necessary to mix using
 - a proprietary forced action mixer, or
 - slow speed drill (400/500 rpm) + Fosroc **MR4** mortar paddle attachment.
- b) For each bag of Renderoc FC to be mixed, measure out and place 5 to 5.33 litres of cool, potable water into the mixer (water quantity may vary slightly according to ambient temperature and desired consistency of mix).
- c) Always add the powder to the water. With the mixer in operation add one full bag of Renderoc FC, or multiples thereof, and mix continuously for 5 minutes until fully homogenous.
- d) Enhanced performance properties can be gained by adding up to 0.7 litres of Nitobond SBR (per full bag of Renderoc FC) in addition to the normal gauging water, until the desired consistency is achieved.

4.0 Application

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

- 4.1 Apply the fully mixed Renderoc FC to the prepared substrate, up to 3 mm thickness, by steel trowel. It should be applied with the minimum of working, and be allowed to partly set before finally trowelling to a smooth finish.
- 4.2 Thickness of application should be in accordance with that laid down in the '**Application criteria**' section of the current product data sheet.
- 4.3 If a very smooth finish is required, a small amount of water may be flicked onto the surface of the Renderoc FC, with a paint brush, prior to final trowelling.

5.0 Finishing

- 5.1 Renderoc FC is finished by striking off with a straight edge and closing with a steel or plastic float. Note that water can be drawn to the surface if 'overworking with the float occurs, and an unsightly finish may result.
- 5.2 Damp sponges or plastic floats may be used to achieve a desired surface texture, but care should again be taken not to overwork the surface.

6.0 Curing

- 6.1 Curing of Renderoc FC is not generally required. However, under extreme drying conditions - high temperatures, drying winds, use Nitobond AR.

7.0 Cleaning



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- 7.1 All equipment should be washed with clean water immediately after use. Cured material can only be removed by mechanical means.

Section C : Approval and variations

This method statement is offered by Fosroc as a 'standard proposal' for the application of Renderoc FC. It remains the responsibility of the Customer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Fosroc for comment, in writing, prior to the commencement of any work.