

Proposal

Repairs to pinholes and minor surface imperfections using cementitious or epoxy resin fairing coat.

Method A - cementitious repair

1 Preparation

- 1.1 Clean the surface and remove any dust, loose particles, unsound material and general curing compounds.
- 1.2 All surface contamination and surface laitance must be removed by light scabbling, grit-blasting or mechanical wire brushing.
- 1.3 Broken out areas shall be blown clean with an oil-free compressed air before continuing.

2 Priming

- 2.1 Thoroughly soak the substrate with clean water approximately one hour prior to applying the repair.
- 2.2 Remove all surface water leaving the substrate saturated surface dry.

3 Mixing

- 3.1 Dampen all surfaces of mixing equipment, removing any excess water.
- 3.2 Measure out the correct amount of clean, cool water (3.0 litres dependent on application requirements) into a mixer that has been pre-dampened. Ensure any excess water is removed.
- 3.3 With the machine in operation slowly add one full 20kg bag of Renderoc FC to the water and mix continuously, for a minimum period of 3-5 minutes until fully homogeneous.

Small quantities up to 5 kgs, can be mixed by hand, Renderoc FC should be volume-batched. Add 3 volumes of the powder to 1 volume of water and mix vigorously until fully homogeneous.

4 Application

- 4.1 Apply the mixed Renderoc FC to the prepared surface using a steel float.
- 4.2 Renderoc FC should be allowed to partly set before final trowelling to a smooth surface. If a high quality finish is required, a small amount of water should be flicked on to the surface of Renderoc FC prior to final trowelling.

5 Curing

- 5.1 The cementitious fairing coat generally does not require curing. However, in adverse conditions (e.g. windy conditions or ambient temperatures above 30°C) supplementary curing with Rendercure or Nitobond AR should be considered.

Method B - epoxy repair

1 Preparation

- 1.1 See preparation notes on 'Method A'.

2 Mixing

- 2.1 Stir the 'hardener' and the 'base' components in order to disperse any settlement.
- 2.2 Pour the entire contents of the 'hardener' into the 'base' container and mix until a uniform grey colour and consistency is obtained. Do not part mix.

3 Application

- 3.1 Apply Nitomortar FC using a scraper, filling knife or steel float. Finish flush with surrounding concrete.

Prior to over coating with any epoxy coatings, the surface of the fully cured Nitomortar FC shall be lightly abraded to assist adhesion and then cleaned to a dust-free finish.

4 Curing

- 4.1 With the epoxy resin fairing coat curing is not required.

Note

The above information is for application procedure guidelines only. All materials must be mixed and applied strictly in accordance with instructions given on the relevant technical data sheets.

Refer to Section for high temperature working.