

Proposal

Repairs to blow holes and minor surface imperfections using cementitious or epoxy resin blow hole filler.

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 Roughen the surface and remove any laitance and expose the fine aggregates 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 Place the 3.0 litres of the liquid component 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 10kg bag of Renderoc BF2 to the liquid component and mix continuously, for a minimum period of 3-5 minutes until fully homogeneous.

Smaller quantities can be mixed in a 3:1 ratio by volume of powder to liquid, using a slow speed, heavy duty drill attached with a Fosroc mixing paddle. With the mixing paddle in operation, add 3 volumes of the powder to 1 volume of liquid component and mix for 3-5 minutes until fully homogeneous.

4 Application

- 4.1 Apply the mixed Renderoc BF2 to the blow holes using a steel float.

- 4.2 Renderoc BF2 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 BF2 with a paint brush 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.

Smaller quantities can be mixed in a 1:1 ratio by volume. Mix until a uniform consistency is achieved.

3 Application

- 3.1 Apply Nitomortar FC(B) 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(B) shall be 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.