

Proposal

Surface sealing of horizontal non-moving cracks, less than 0.25 mm wide, with either a rigid cementitious or epoxy material.

Method A - cementitious repair

1 Preparation

- 1.1 Using a marker pen, draw a line along the length of the crack to be repaired.
- 1.2 Make a chase in the concrete 10 mm either side of the crack and 15 mm deep. The chase should be 'V' shaped.
- 1.3 Wire brush the surface of the chase to remove all loose deposits, debris and other deleterious substances.

2 Substrate priming

- 2.1 Thoroughly soak the chase with clean water. Remove all surface water, leaving the concrete saturated surface dry.
- 2.2 Apply Nitobond AR acrylic primer to the prepared concrete chase.

3 Mixing and application

- 3.1 Measure out 3.6 litres of cool, potable water, and mix in a full 20 kg bag of Renderoc TGXtra.
- 3.2 Mix for 3 to 5 minutes until fully homogenous, using a 1 KW, slow speed drill (400/500 rpm) + Fosroc mixing paddle.
- 3.3 Apply Renderoc TGXtra into the chase, firmly compacting with a steel pointing trowel. Finish flush with surrounding concrete.

4 Curing

- 4.1 Cure Renderoc TGXtra immediately on completion of the repair using Rencure.
- 4.2 In adverse conditions (e.g. windy conditions or ambient temperatures greater than 30°C), supplementary curing in the form of polythene sheeting, taped down at the edges, should be used.

Method B - epoxy repair

1 Preparation

- 1.1 Using a marker pen, draw a line along the length of the crack to be repaired.
- 1.2 Make a chase in the concrete 5 mm either side of the crack and 5 mm deep. The chase should be 'V' shaped.
- 1.3 Wire brush the surface of the chase to remove all loose deposits, debris and other deleterious substances.

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 by firmly pressing the material into the chase with a steel pointing trowel. Finish flush with surrounding concrete.

4 Curing

- 4.1 Nitomortar FC does not require the application of a curing membrane.

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.