

# Fosroc Renderoc BF2



constructive solutions

Two component polymer modified cementitious blow hole filler

## Uses

Renderoc BF2 is designed for application to imperfections in concrete and masonry surfaces. It is suitable for application in the range 0 to 10mm, and can be used in the following situations:

- Filling blow holes prior to overcoating
- Filling shrinkage cracks in concrete
- General reprofiling over large areas
- Reprofiling, in association with other Renderoc mortars

## Advantages

- **Cost effective/ time saving** - no independent primer or curing agents required
- **High performance** - excellent bond to substrate
- **User friendly** - gauging liquid supplied to overcome mixing problems, ideal for remote locations
- **Cost effective** - allows part mixing

## Description

Renderoc BF2 is supplied as a ready to use blend of dry powders which requires only the site addition of the liquid component to produce a highly consistent cementitious mortar, with good handling characteristics.

Renderoc BF2 exhibits excellent thermal compatibility with concrete and is fully compatible with other Renderoc\* mortars and Dekguard\* protective coatings.

## Properties

The following results were obtained at a powder:liquid ratio of 1:0.3 by weight (or 3:1 by volume).

### Property

Typical result :	@ 20°C	@ 35°C
Working life (Approx.)	45 mins	20 mins
Setting time (BS EN 196-3)	60 mins	45 mins

**Fresh wet density** : 1750 kg/m<sup>3</sup>

**Average Linear Coefficient of Thermal Expansion (23 - 100°C)** : 4-8 x 10<sup>-6</sup> per °C

**Note:** Working life and setting time will vary depending on ambient substrate temperatures and wind speed.

## Design Criteria

Renderoc BF2 is designed for vertical and overhead use to infill surface imperfections of concrete in the range 0 to 10 mm.

## Instructions for use

### Preparation

Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scabbling or sweep blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test.

The cleaned areas should be blown clean with oil-free compressed air before continuing. All prepared areas should be thoroughly soaked with clean water immediately prior to the application of Renderoc BF2. Any residual surface water should be removed prior to commencement.

### Mixing

Care should be taken to ensure that Renderoc BF2 is thoroughly mixed. In all cases the powder component should be added to the liquid component.

Mixing should be carried out in a suitably sized mixing vessel, using a slow speed (400/500 rpm), heavy duty drill and Fosroc mortar paddle.

Pour the entire content of the liquid component into the mixer and with the machine in operation, add one full bag of powder. Mix for 3 to 5 minutes, until fully homogeneous.

Part mixing may be adopted ensuring that the components are mixed in a 3:1 ratio, by volume of powder to liquid. Powder should be loose-filled to excess, then struck off level with the top of the measuring container.

Measure out one part of the single part liquid component into the mixing vessel and slowly add the 3 parts of powder, with the mixing paddle in operation. Mix for 3 to 5 minutes, paying close attention to the bottom and sides of the mixing vessel, until a fully homogenous paste is achieved.

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## Application

Apply the mixed Renderoc BF2 to the blow holes 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. If a very smooth finish is required, a small amount of water may be flicked on to the surface of the Renderoc BF2 with a paint brush prior to final trowelling.

## Curing

Curing is not generally required. However, under extreme conditions - high temperatures and drying winds - use Nitobond AR<sup>††</sup> as a curing agent, or cover the surface with polythene sheeting, taped down at the edges.

Nitobond AR does **not** require mechanical removal prior to overcoating with Dekguard system.

## Cleaning

Renderoc BF2 should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

## High temperature working

At ambient temperatures above 35°C, the components should be placed in air-conditioned storage of less than 25°C, for special application procedures, refer to your local Fosroc office.

## Overcoating with protective / decorative finishes

Renderoc BF2 may be overcoated after 48 hours, in ambient conditions of up to 75% relative humidity dependant on the type of coating. For further information consult the local Fosroc office before proceeding.

## Estimating

### Supply

Renderoc BF2	:	16.66 kg powder + 5 lt liquid
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### Yield

Renderoc BF2	:	12.4 litres per 21.66kg pack
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Actual coverage of Renderoc BF2 will be wholly dependent upon the general substrate condition. It is recommended, therefore, that site trials over a typical area are carried out to determine actual usage.

## Limitations

- Renderoc BF2 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.
- If any doubts arise concerning temperature or substrate conditions, consult the local Fosroc office.
- If Renderoc BF2 is subjected to conditions of water immersion allow a minimum cure of 7days @ 25°C. Permanent immersion may result in a colour change which does not affect barrier properties.

## Storage

### Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs @ 25°C. If stored at high temperatures and/or high humidity conditions the shelf life may be considerably reduced to 4 to 6 months.

## Precautions

### Health and safety

Renderoc BF2 contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **do not** induce vomiting. For further information, refer to the Product Material Safety Data Sheet.

### Fire

† See separate data sheet



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### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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