



# Renderoc SC

## Single component polymer modified cementitious skimming coat

### Uses

Renderoc SC is designed for use as a skim finish on wall and ceilings, it can be applied from a feather edge up to a maximum recommended thickness of 3 mm. It only can be used for internal application. Under normal conditions, the product does not require an independent primer or curing membrane.

### Advantages

- Easy to use - no independent primer or curing membrane necessary
- Excellent bond to the concrete substrate
- Pre-blended to overcome site batched variations, only the site addition of clean water is required
- Contains no chloride admixtures
- Consistent work quality
- Excellent finish

### Description

Renderoc SC is supplied as a ready to use blend of dry powder which requires only the site addition of clean water to produce a highly consistent cementitious skimming mortar. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics, while minimizing water demand. The product exhibits excellent thermal compatibility with concrete and is fully compatible with other Renderoc mortars and Dekguard Coatings.

### Technical Support

Fosroc offers a comprehensive range of high performance, high quality construction products. In addition, Fosroc offers a technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

## Specification Clauses

### Skimming Coat

The skimming coat shall be Renderoc SC, a single component polymer modified cement-based blend of powders to which only the site - addition of clean water shall be permitted. The material shall be capable of use without independent priming and curing systems.

### Application instruction

#### 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 grit-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.

Renderoc repair mortars require no additional preparation prior to the application of Renderoc SC

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 SC. Any residual surface water should be removed prior to commencement.

#### Mixing

Care should be taken to ensure that Renderoc SC is thoroughly mixed. Small quantities (up to 10 kg) can be mixed by hand using a suitable mixing drum or bucket. Greater quantities should be mixed using a forced-action mixer. Mixing in a suitably sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy-duty drill is an acceptable alternative.

If mixing small quantities by hand, Renderoc SC should be volume-batched. Add 3 volumes of the Renderoc SC powder (loose-filled to excess and struck off level with the top of the measuring container) to one volume of drinking quality water. This should be mixed vigorously until fully homogeneous.

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For larger volumes, place 7.0 to 8.0 litres of drinking quality water into the mixer and, with the machine in operation, add one full 25 kg bag of Renderoc SC and mix for 3 to 5 minutes until fully homogeneous. Depend on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 8.0 litres per 25 kg bag of Renderoc SC.

**Note:** that in all cases Renderoc SC powder must be added to water.

## Application

Apply the mixed Renderoc SC to the prepared substrate by steel trowel from a feather-edge up to 3 mm thickness. 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 SC with a paint brush prior to final trowelling.

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

**Note:** the maximum applied thickness of Renderoc SC is 3 mm.

## Low Temperature working

Normal precautions for winter working with cementitious materials should then be adopted. The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

## High temperature working

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing.

## Curing

Renderoc SC does not require curing. In cold conditions, the finished application must be protected from freezing.

## Overcoating with protective decorative finishes

Renderoc SC may be overcoated with a protective barrier/ decorative coating after about 48 hours, dependent on ambient conditions. Fosroc recommend the use of the Dekguard range of protective, anti-carbonation coatings. These products provide a decorative and uniform appearance as well as protecting parts of the structure which have not been repaired and might otherwise be at risk from the environment.

## Cleaning

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

## Limitations

Renderoc SC 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. Exposure to rainfall prior to the final set may result in water uptake and severe reduction in the performance of the hardened product. The product should not be exposed to moving water during or after application. If any doubts arise concerning temperature or substrate conditions, consult the local Fosroc office.

## Estimating

### Supply

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Renderoc SC:	25 kg bags
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### Coverage and yield

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Renderoc SC:	Approximately 15.0 litres/25 kg bag (5.0 m <sup>2</sup> at 3 mm thickness).
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## UN packaging regulations

To comply with current regulations, all products of a hazardous nature which are subjected to a sea crossing as part of their delivery requirements, must be packed in UN approved receptacles.

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When a known sea crossing is involved whether locally or for export. Fosroc will supply in the correct UN packaging. Where Fosroc is requested to deliver within a mainland boundary but the Purchaser intends to onward ship, it is incumbent upon the Purchaser to specify that UN packaging is required at the time of placing the order. Otherwise, once received, responsibility rests with the Purchaser. The use of UN packaging may affect the selling price of products. Please consult the local Fosroc area manager or office.

## 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.

### Storage conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced to 4 to 6 months.

## Precautions

### Health and safety

Renderoc SC 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.

### Fire

Renderoc SC is non-flammable

For further information, refer to the Product Material Safety Data Sheet.

## Additional information

Fosroc manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products is available. This includes joint sealants, waterproofing membranes, grouting, anchoring and specialised flooring materials.

Fosroc has also produced several educational training videos which provide more detail about the mechanisms which cause corrosion within reinforced concrete structures and the solutions which are available to arrest or retard these destructive mechanisms. Further information is available from the publication: 'Concrete Repair And Protection - The Systematic Approach', available in seven language formats.

For further information about products, training videos or publications, contact the local Fosroc office.

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#### **Important note**

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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