

# Renderoc TG

## Trowel Grade Cementitious Repair Mortar

### Uses

Fosroc Renderoc TG is recommended for use as a general patch repair mortar in vertical or soffit repair applications.

It is suitable for rapid repairing, rendering, patching bedding and pointing of:

- Concrete
- Blockwork
- Brickwork & Masonry

### Advantages

- Convenient, one pack product, simply add water
- Shrinkage compensated, can be applied over large areas without cracking or debonding
- Medium to high build application
- Composition ensures excellent adhesion
- Water tightness, special additives ensure optimum density and water repellence of cured surfaces

### Standards Compliance

Renderoc TG cementitious repair compound is tested in accordance with BS 4550.

### Technical Support

Fosroc offers a comprehensive range of high performance high quality, construction products. In addition to the wide range of quality products. Fosroc offers a technical support package to specifiers and contractors which includes assistance with product selection and technical advice from staff with unrivalled experience in the industry.

### Description

Renderoc TG is part of Fosroc's range of cementitious polymer modified repair mortars. It is a single component shrinkage compensated pre-packed repair mortar to which water is simply added on site. It consists of specially blended non shrink cement, graded sand, fillers and chemical polymers to provide durable repair to concrete. The lightweight fillers allow application thicknesses of 40 mm vertical and 25 mm soffit without formwork.

### Properties

Test Method	Typical results
<b>Compressive strength: (BS 4552)</b>	40 N/mm <sup>2</sup> at 28 days
<b>Flexural Strength: (BS4551)</b>	5.5 N/mm <sup>2</sup> at 28 days
<b>Tensile Strength: (BS6319 Part 7 1985)</b>	1.7 N/mm <sup>2</sup> at 28 days
<b>Water absorption ISAT (BS1881 Pt5: 1970)</b>	10 mins: 0.025ml/m <sup>2</sup> /sec
<b>Coefficient of thermal expansion:</b>	7.3 x 10 <sup>-6</sup> / °C
<b>Setting Time</b>	Dependent on temperature and water content typically 2 to 4 hours
<b>Chemical resistance</b>	Substantially reduced resistance absorption; slows-down chemical attack in aggressive environments

### Application Instruction

#### Surface Preparation

Successful repairs to concrete depend totally on correct surface preparation. Particular care should be taken to ensure all surfaces are completely free of laitance, oil, dust, grease, plaster, paint, corrosion and any other deleterious substances. All reinforcing steel must be grit blasted to a profile of SA 2 1/2 prior to the application of the recommended primer.

Edges of the areas of repair must be saw cut to 5mm to avoid feather edging.

#### Priming

All surfaces must be primed prior to repair. Reinforcing steel must be primed with Nitoprime Zincrich. Concrete must be primed with Nitobond AR. Nitobond AR is an acrylic emulsion which is scrubbed onto the surface of the concrete

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## Mixing

Small quantities up to 10 kg may be mixed manually in a bucket. Quantities in excess of 10 kg should be mixed mechanically with a slow drill (500 rpm) with a loop paddle. For normal applications use from 4 to a maximum of 5 litres of water per 25 Kg bag, dependent on desired consistence. Drier mixes assist higher build and reduce the risk of drying shrinkage.

## Application

For application to all surfaces Fosroc recommend that Renderoc TG be applied with a wood float to ensure positive contact with the primed substrate. Initial application should be with a tamping or compacting action rather than a floating action.

Finishing can be wood float, steel trowel or sponge depending which type of finish is required. Depending on the nature and position of the repair it may be necessary to build up Renderoc TG in a number of layers. The minimum layer thickness of Renderoc TG is 10 mm and it can be built up to 40 mm on vertical surfaces. This can be achieved either by the "wet-on-wet" technique where each layer is fused to the previous one immediately or by allowing initial set to take place (3-4 hrs) and then applying the next layer onto the previously scored and primed surface.

If sagging occurs at any time due to excessive build up of Renderoc TG, the material should be completely removed and reapplied in thinner layers. Where a high build is required in an overhead or vertical situation the associated product Renderoc HB should be considered.

## Curing

Renderoc TG is a cementitious repair mortar. In common with all cementitious materials. Renderoc TG must be cured immediately after finishing in accordance with good concrete practice. When overcoating with Nitocote Dekguard the use of Nitobond AR sprayed onto the surface as a continuous film is recommended. In harsh drying conditions supplementary curing such as wet hessian or polythene must be used.

## Cleaning

Nitobond AR and Renderoc TG should be removed from tools, equipment and mixers with clean water immediately after use.

## Estimating

### Supply

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**Renderoc TG** : 25 kg bags

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**Nitobond AR** : 5 and 20 litre pails

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### Coverage and Yield

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**Renderoc TG** : 16 to 18 ltrs per 25kg bag

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**Nitobond AR** : 6 to 8m<sup>2</sup>/litre

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## 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.

## Precautions

### Health and safety

Renderoc TG 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. 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 TG is non-flammable



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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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of 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 of information given by it.

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