



# RENDEROC SM

## Modified micro concrete for floor repairs

### Uses

**Renderoc SM** is ideal for repairing large damaged floors, High early and ultimate strength, Low permeability, shrinkage compensate repair

Shrinkage compensating – reduces and eliminates cracks at hardening state

- Contains no chloride admixture
- Pre-packed material, ready to use with only addition of water on site.

### Description

**Renderoc SM** is high strength non-shrink cementitious flowing micro-concrete specially formulated from Portland cement, graded filler, shrinkage compensating agents and special additives. **Renderoc SM** is supplied as ready to use dry powder. It is only required additional of clean water to produce a flowing repair micro-concrete ideally from 10 mm up to 100 mm thickness.

### Technical Supports

Fosroc offers a comprehensive range of high quality, high performance construction products. In addition, Fosroc offers a world-wide technical support and on-site service to customers.

### Typical Properties

The following results were obtained at water:powder ratio of 0.12 and temperature 25+/- 2°C.

#### Compressive strength

##### Tolerance +/- 10%

<b>ASTM C109/C109M</b>	: 20 N/mm <sup>2</sup>	@ 1 day
	45 N/mm <sup>2</sup>	@ 7 days
	55 N/mm <sup>2</sup>	@ 28 days

**Fresh wet density** : Approx. 2200 gr/L

Workability (Flow Table) : 19 – 24 cm

## Application instructions

### Preparation Floor Surface

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance. It must be cut back to a sound base.

### Priming

Area to be repaired should be applied suitable primer, such as Nitobond AR or Nitobond SBR prior to application of Renderoc SM.

### Mixing

The quantity of water required to achieve the desired consistency is precise, and the volume used should be in accordance with the following:

#### Mixing Water in liter per 25 kg bag

Trowable: 3.0 liter

Use drill mixer/mixing paddle (+/- 400 rpm). Ensure that machine capacity and the number of operatives are adequate. Add approx.. 90% (w/w) of the recommended water requirement (see above) to the mixer before adding the dry powder. Mix until lumps are broken up (approximately 2 minutes), before adjusting the consistency with the addition of the gauge water. Add the rest of water, mix until homogeneous for another 3 - 5 minutes.

### Curing

On completion of the repair operation, exposed area should be thoroughly cured. This should be done by the use of Concure series, continuous application of water and/or wet hessian.

### Cleaning

**Renderoc SM** should be removed from tools and equipment clean water immediately after use.



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Cured material can be removed mechanically.

## Estimating Supply

Renderoc SM is supplied in 25 kg of paper bags.

## Storage

Renderoc SM has a shelf life of 12 months if kept in a dry store in sealed bags, Temperature 25 – 35 °C, avoid direct sunlight. If stored in high temperature and high humidity locations the shelf life can be reduced.

## Precautions Health and safety

Renderoc SM is alkaline and should not come into contact with skin and eyes. Avoid inhalation of dust during mixing.

Gloves, goggles and dust mask should be worn.

If contact with skin occurs, wash with water.

Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

## Fire

Renderoc SM is non- flammable.

Additional information



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### Important note

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