

# Renderoc Plug

Rapid setting cement-based, water-stopping mortar

## Uses

- Patching mortars and concrete
- Stopping leaks
- Repairing honeycombs, cracks and spalls
- Making rigid joints watertight
- Repairing concrete pipe and precast concrete
- Anchoring of bolts, railings and fixtures
- Repairing water - retaining structures
- Filling holes left by tie wires

## Advantages

- Stops running water instantly
- Non shrink and expands as it sets
- Easy to use
- Does not contain chlorides and is non-metallic
- Non toxic when set

## Description

Renderoc Plug is a quick setting non shrink hydraulic mortar and is packaged in powder form. When mixed with water to form a putty consistency, it is ideal for instant stopping of water or leakages through concrete and masonry, and applications that are under hydrostatic pressure. Upon setting the product develops excellent structural strength and water-tightness.

## Properties

Test Method	Typical Result
Compressive Strength (BS 1881 Part 116)	6 N/mm <sup>2</sup> at 30 mins.
	12.5 N/mm <sup>2</sup> at 1 day
	22.5 N/mm <sup>2</sup> at 3 days
	35.0 N/mm <sup>2</sup> at 28 days

## Application Instructions

### Preparation

Areas to be patched should be cut back to a depth of 15 mm and given a good mechanical key. Feather-edges must not be allowed. Surface should be brushed clean to remove loose material, dust and laitance. Grease, slime or mould growth should be removed by steam cleaning or high-pressure water jetting. A proprietary degreasing agent should be used for removal of light oil or grease contamination.

To seal leaks, crack openings must be chased out to approximately 20 mm square. The chase should always be undercut to avoid leaving a v-section. All loose material and debris should be removed.

### Mixing

Renderoc Plug should be added to clean water in the following proportions:

one part clean water: 3 parts Renderoc Plug (measured by volume).

Mix to a stiff consistency in a suitable mixing drum or bucket, using a trowel or gloved hand. Due to the rapid set characteristics of the product, only prepare a quantity of mortar which can be placed within the prescribed set time.

### Application

If dry, area of application should first be wetted. Trowel apply or hand-knead the mixed mortar in place, ensuring maximum contact with the substrate before the material sets. If being used to plug running water, Renderoc Plug should be used and held in place until the initial set is reached.

**Note:** the minimum applied thickness of Renderoc Plug should be 15 mm. For holes which are more than 50 mm deep, Renderoc Plug should be applied in 50 mm layers, always pre-wetting before applying following layers.

# Renderoc Plug

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## Setting Time

Normal setting time is 1 to 3 minutes at 25°C. Time may vary according to ambient conditions. However, when desired or necessary, the setting time can be slowed down by using colder water.

## Cleaning

Renderoc Plug products should be removed from tools, equipment and mixers with clean water prior to the initial set. Cured material can only be removed mechanically.

## Limitations

Renderoc Plug should not be used when the temperature is below 1°C and falling. If any doubts arise concerning application or substrate conditions, consult the local Fosroc office.

## Estimating

### Supply

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Renderoc Plug:	4.5 kg of 1 kg tin
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### Yield

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Renderoc Plug:	2.25 litres per 4.5 kg tin
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## Storage

### Shelf life

Renderoc Plug has a shelf life of 6 months if kept in a dry store in the original, unopened bags or packs. If stored at high temperatures and/or high humidity conditions the shelf life will be reduced.

## Precautions

### Health and safety

Renderoc Plug products contain 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 provides 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 Plug is non-flammable.

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



## Fosroc (Thailand) Limited

777/9 Moo 7,  
Bangplee-Tamru Road,  
Bangplee Yai, Bangplee,  
Samutprakarn 10540 Thailand

### Important note

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**telephone:**  
+66 (0)2325 0913-15

**fax:**  
+66 (0)2337 3551

**email:**  
thailand@fosroc.com