



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Renderoc Plug 1 Data Sheet

Specification notes

Product: **Renderoc Plug 1**

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Renderoc Plug

Rapid setting cement-based, water-stopping mortars

Uses

For the rapid patching and plugging of concrete segments, concrete and brick tunnel linings, sewage systems, below ground access chambers, pipes, basements, foundations and mines.

Advantages

- Emergency water-stopping capability
- Single component
- Excellent bond to the substrate
- Low exotherm minimises thermal cracking
- Pre-bagged to overcome variations in site batching
- Chloride-free
- Renderoc Plug 20: DWI Approved

Description

Renderoc Plug is a rapid setting mortar which is easy to apply to horizontal, vertical or overhead surfaces at a wide range of thicknesses. There are two grades available: Renderoc Plug 1 with an initial set time of approximately 1 minute, and Renderoc Plug 20 with an initial set time of approximately 20 minutes. (Set times are based on ambient/substrate temperatures of 20°C.)

Standards compliance

Renderoc Plug 20: DWI Regulation 25(1)(a) Approved.

Properties

Initial set time

Renderoc Plug 1: Approximately 1 minute @ 20°C

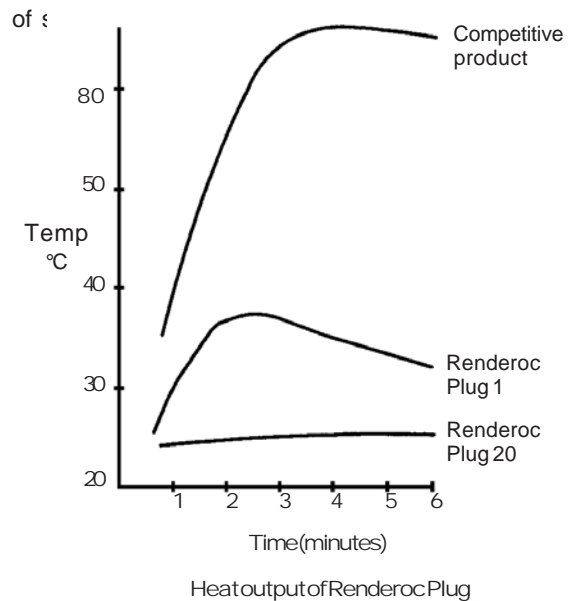
Renderoc Plug 20: Approximately 20 minutes @ 20°C

Note: set times will be extended when mixed at lower temperatures.

Compressive strength (BS 6319 Pt 2: 1983) @ 20°C

	Renderoc Plug 1	Renderoc Plug 20
1 hours	6 N/mm ²	-
6 hours	10N/mm ²	6N/mm ²
24 hours	-	18N/mm ²
7 days	-	32N/mm ²
28 days	25N/mm ²	40 N/mm ²

Heat generation characteristics: High heat output (exotherm) leads to undesirably high shrinkage and consequent thermal cracking. The curves below show the low heat output of Renderoc Plug which minimises the risk



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 to three parts Renderoc Plug (by volume).

Mix to a stiff consistency in a suitable mixing vessel, 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

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 1 should be used and held in place until the initial set is reached.

Renderoc Plug

The minimum application thickness of Renderoc Plug products is 15 mm.

Low temperature working

In cold conditions down to 1°C, the use of warm water (up to 20°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should be adopted. The material should not be applied when the substrate and/or air temperature is 1°C and falling. At 1°C static temperature or at 1°C and rising, the application may proceed. If in doubt contact the local Fosroc office.

High temperature working

At ambient temperatures above 35°C, the material should be stored in the shade and cooler water (down to 20°C) used for mixing.

Cleaning

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

Estimating

Renderoc Plug 1 is supplied in 6 kg bags each yielding 3 litres.

Renderoc Plug 20 is supplied in 25 kg bags each yielding 12.5 litres.

Storage

Shelf Life

The product has a shelf life of 12 months from the date of manufacture if kept in dry storage in the original, unopened bags.

Storage Conditions

Store in unopened bags in cool dry internal conditions. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced to less than 6 months.

Precautions

Health and safety

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

Fire

Renderoc Plug products are 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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