

Renderoc Plug

Rapid setting cement-based, water-stopping mortars

Uses

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

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

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

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Renderoc Plug is a rapid setting mortar which is easy to apply horizontal, vertical or overhead surfaces at a wide range of thickness. 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

Properties

Initial Set Time

Renderoc Plug 1: Approximately 1 minute @ 20°C

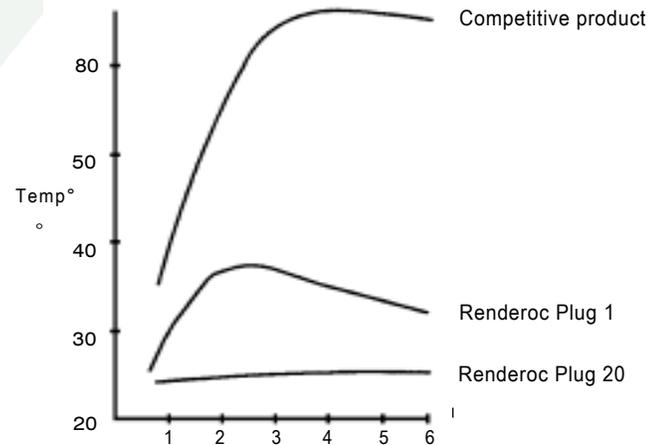
Renderoc Plug 20: Approximately 20 minutes @ 20°C

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 minimizes the risk of shrinkage and thermal cracking.



Application Instructions

Preparation

Areas to be patched should be cut 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 mold 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 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 and held in place until the initial set is reached.

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

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

Cleaning

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

Estimating

Renderoc Plug 1 is supplied in 5kg and 10kg buckets.

Renderoc Plug 2 is supplied in 25 kg bags each yielding 12.5 litres.

Storage

Shelf life

All products have a shelf life of 6 months, if kept in a dry store away from any moisture and in the original, unopened bags or packs in a covered area.

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 months.

Precautions

Health and safety

Renderoc Plug 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 Plug products are non-flammable.

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



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