

Renderoc Plug

Rapid setting cement-based, water-stopping mortars

Uses

Renderoc Plug seals leaks in running water where conventional mortars would be washed away and where even rapid set resin mortars will not bond.

Renderoc Plug is the ideal material to seal leaks prior to applying waterproof renderings in basements. Renderoc Plug can be used for patching, caulking, joint filling, pointing and waterproofing of concrete segments, concrete and brick tunnels, sewerage systems, pipes, wells, foundations and mines.

Advantages

- Emergency water-stopping capability
- Single component - only the addition of clean water is required
- Excellent bond to the substrate
- Low exotherm minimises thermal cracking
- Pre-bagged formulation to overcome variations in site batching
- Contains no chloride admixtures

Standard Compliance

Renderoc Plug complies with the requirements of the United Kingdom Water Fitting Bye-laws scheme "Tests of Effects" on water quality.

British Coal Corporation Non-metals and substances scheme. Underground Acceptance No. A2919; Underground Hazard No.02430.

Description

Renderoc Plug is a blend of special cements, graded fillers and a chemical set control system. It is supplied as a dry powder needing only the addition of water to produce an ultra rapid set plugging mortar.

Technical support

Fosroc offers comprehensive technical support, including help at the design stage, application advice and on site problem solving. Specifiers and contractors are encouraged to contact our trained staff for answers to their questions.

For further information please contact Fosroc.

Design criteria

Renderoc Plug can be applied to horizontal, vertical or overhead surfaces at a wide range of thicknesses. Generally, the volume of mixed material used in a single application is restricted to that which can be applied by trowel or gloved hand. Thicker sections can be built up in layers. If any doubt arises about the nature of the substrate, please consult your local Fosroc office for further information.

Specification clauses

Water stopping mortar

The water stopping mortar shall be Renderoc Plug, a single component cement-based blend of powders to which only the site-addition of clean water shall be permitted. It must be chloride-free and must be formulated to prevent high exotherm and minimise thermal cracking.

Typical Properties

Strength gain

(BS 6319, Part 2 1983):	1 hour	5.5 MPa
	3 hours	8.5 MPa
	6 hours	10 MPa
	1 day	15 MPa
	7 days	24 MPa
	28 days	30 MPa

Initial set (Vicat)

(BS 4550, Part 3, 1978):	at 20°C	at 10°C	at 5°C
	30 secs	1.5 mins	2 mins

Application instructions

Surface 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. Surfaces 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:

1 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

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.

Renderoc Plug

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.

Sampling Procedure

Fosroc standard test methods must be employed when performance testing this product. For full information please contact your local Fosroc office.

Limitations

Renderoc Plug should not be used when the temperature is below 1°C and falling.

Estimating

Supply

Renderoc Plug:	10 kg pail and 25 kg pail
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Coverage

Renderoc Plug:	5 litres per 10 kg pail & 12.5 litres per 25 kg pail
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Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Storage

Shelf life

All products have a shelf life of 9 months if kept in a dry store in the original, unopened bags or packs.

Storage conditions

Store in dry conditions in the original, unopened bags or packs.

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 provide 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 see relevant Material Safety Data Sheet.

Additional information

Fosroc manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. These include hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products is available. This includes joint sealants, waterproofing membranes, waterstops, grouts, anchors and specialised flooring materials.

For further information about products, training videos or publications, please contact the local Fosroc office.

Renderoc is the trademark of Fosroc International Limited.



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 or 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 or information given by it.