

Non shrink electrochemically compatible grout

Uses

Renderoc LJ is used to grout the annular space in Galvashield LJ jackets providing a structural repair and electrochemical function simultaneously.

Advantages

- Non shrink and non metallic
- High compressive strength
- Fluid
- Can be pumped or poured
- Chloride free
- Electrochemically compatible with Galvashield LJ system

Description

Renderoc LJ is supplied as a ready to use dry powder. The addition of a controlled amount of clean water will produce a fluid grout for pouring or pumping into voids.

Renderoc LJ is a blend of Portland cements, graded aggregates and additives. The low water requirement produces a fluid grout of high strength with good workability.

Specification

All repair grouting within the confines of the Galvashield LJ jacket must be carried out with a pre-bagged, non shrink, electrochemically compatible cementitious grout supplied by a registered firm under the ISO 9001 Quality Assurance Scheme. The compressive strength of the grout shall be at least 50 N/mm² at 28 days.

The grout must be stored, handled and placed in strict accordance with the manufacturers instructions. No site batched additions to the pre-bagged grout shall be allowed.

Properties

At a water:powder ratio of 0.12 at 20°C:

Test method	Typical result
Compressive strength (BS 1881 Part 116)	10 N/mm ² at 1 day 40 N/mm ² at 7 days 50 N/mm ² at 28 days
Expansion characteristics (ASTM C827-87)	Up to 2% @ 24 hours
Electrical Resistivity @28days	5,000 - 6,500 Ohm-cm

Instructions for use

Preparation

The substrate must be free from oil, grease or any loosely adhering material. If concrete surfaces are defective or have laitance, they must be cut back to a sound base.

Pre soaking

Generally the repair will be soaked as a result of tidal action, if not, soak concrete substrates for a minimum of two hours continuously prior to placing the grout. Immediately before placement all free water should be removed.

Mixing and placing

For best results a mechanically powered grout mixer should be used. When quantities up to 60 kg are used, a slow speed drill fitted with a high shear mixer is suitable. Larger quantities will require a high shear vane mixer. Do not use a colloidal impeller mixer.

To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available. The use of a grout holding tank with provision to gently agitate the grout may be required.

Consistency of grout mix

The quantity of clean water required to be added to a 20 kg bag to achieve the desired consistency is given below:

Flowable	: 2.4 litres
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The water should be accurately measured into the mixer. The total contents of Renderoc LJ bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

Placing

At 35°C place the grout within 10 minutes of mixing to gain the full benefit of the expansion process.

Renderoc LJ can be placed in a single pour.

Pour or pump Renderoc LJ from one point only to eliminate the entrapment of air. For pumping advice please contact Fosroc.

Curing

After grouting all exposed areas should be cured by covering with polythene sheet securely taped down at all edges.

Renderoc® LJ

Cleaning

Renderoc LJ should be removed from all tools and equipment with clean water immediately after use.

Cured product can be removed mechanically or with Fosroc Acid Etch*†.

Sampling procedure

Cementitious grouts cannot be tested as concrete. Special sampling procedures are required, refer to your local Fosroc office for further details.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Limitations

At ambient temperatures above 35°C, the mixed grout should be placed immediately after mixing. Water with a temperature less than 20°C should be used for mixing.

Estimating

Supply

Renderoc LJ : 20 kg bags

Yield

Flowable : 9.7 litres/20 kg bag

Storage

Shelf life

Renderoc LJ has a shelf life of 12 months if kept in a dry store in sealed bags.

Storage conditions

Store in a cool place and out of direct sunlight. Storage at high temperature may reduce shelf life.

Precautions

Health and safety

Renderoc LJ contains cement powders that when mixed or become damp, release alkalis that 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 a dust mask. The use of a barrier cream provides additional skin protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. If swallowed, seek medical attention immediately - **do not** induce vomiting.

† See separate data sheet

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