



Non shrink electro-chemical grout

Uses

Galvashield Grout MC50 is used to grout the annular space in Galvashield LJ jackets providing a concrete 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

Galvashield Grout MC50 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.

Galvashield Grout MC50 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 55 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 0.15 at 20°C:

Test method	Typical result
Compressive strength (BS 1881 Part 116):	12 N/mm ² at 1 day 45 N/mm ² at 7 days 55 N/mm ² at 28 days
Expansion characteristics (ASTM C827-87):	Up to 2% @ 24 hours
Electrical resistivity @28 days:	9,800 - 11,100 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 : 3.0 litres

The water should be accurately measured into the mixer. The total contents of Galvashield Grout MC50 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.

Galvashield Grout MC50 can be placed in a single pour.

Pour or pump Galvashield Grout MC50 from one point only to eliminate the entrapment of air. For pumping advice please contact Parchem.

Curing

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

Cleaning

Galvashield Grout MC50 should be removed from all tools and equipment with clean water immediately after use.

Sampling procedure

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

Galvashield® Grout MC50

Technical Support

Parchem offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

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

Galvashield Grout MC50: 20 kg bags

Yield

Flowable: 10 litres/20 kg bag

Storage

Shelf life

Galvashield Grout MC50 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.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

