

# Galvashield CC Bedding Mortar



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constructive solutions

## Pre-bagged, shrinkage compensated cementitious mortar for drilled in sacrificial anodes

### Uses

The product is designed for use with Galvashield CC anodes used in galvanic protection.

### Advantages

- Expansion system compensates for long term shrinkage ensuring continuity with the substrate
- Pre-packaged material overcomes potential on-site batching variations
- Specially formulated to ensure electro-chemical compatibility
- Thixotropic nature allows application in overhead situations

### Description

Galvashield CC Bedding Mortar is supplied as a ready to use dry powder requiring only the addition of a controlled amount of clean water to produce a thixotropic shrinkage compensating mortar. Galvashield CC Bedding Mortar is a high alkalinity grout based on Portland cements and additives. The material is designed to allow uniform mixing, and eliminates unwanted segregation and bleeding.

### Specification

#### Performance specification

All anode grouting, where shown on the drawing, must be carried out with a pre-packaged cement based product which is iron-free and chloride-free. It shall be mixed with clean water to the required consistency. The plastic mortar must not bleed or segregate. The compressive strength of the grout must exceed 20N/mm<sup>2</sup> at 7 days and 30N/mm<sup>2</sup> at 28 days. The storage, handling and placement of the mortar must be in strict accordance with the manufacturer's instructions.

#### Properties

<b>Compressive strength:</b>	12N/mm <sup>2</sup> @ 1 day
<b>(BS 1881: part 4 1970</b>	20N/mm <sup>2</sup> @ 7 days
<b>flowable consistency)</b>	30N/mm <sup>2</sup> @ 28 days

<b>Fresh wet density:</b>	Approx. 1700kg/m <sup>3</sup> depending on actual consistency used
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<b>Chloride content:</b>	Nil to BS 5075
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<b>Expansion</b>	A positive expansion
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<b>Characteristics:</b>	of up to 1%
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### Instructions for use

#### Preparation

Suitably sized holes should be drilled or cored, making

sure they are free from all deleterious material. The hole should be flooded with fresh water prior to Galvashield CC unit installation. All free water should be removed immediately before grouting takes place.

### Mixing and placing - Application

#### Mixing

Galvashield CC Bedding Mortar should be mixed with a slow speed drill ( 400/500rpm ) and Renderoc paddle. Place between 0.8-0.9 litres of drinking water, depending on required consistency, into a suitable mixing container and add one full 5kg bag of Galvashield CC Bedding Mortar and mix for three minutes until a smooth even consistency is obtained. Part bags should not be used.

#### Installation

Remaining water should be removed from the hole and the Galvashield CC Bedding Mortar applied to the rear of the hole to avoid air entrapment, ensuring sufficient is placed to cover the entire length of the Galvashield CC unit. The thixotropic nature of Galvashield CC Bedding Mortar will prevent significant flow from vertical and overhead holes. Pre-soak each Galvashield unit with clean water, for a minimum of 10 minutes and maximum of 20 minutes before gently inserting into the hole while still wet. See Galvashield CC datasheet for connection details.

Place the Galvashield CC Bedding Mortar within 30 minutes of mixing and allow to cure for a minimum of 24 hours, without physical disturbance.

#### Cleaning

Galvashield CC Bedding Mortar should be removed from tools and equipment with clean water immediately after use. Cured material can be removed mechanically, or with Fosroc Acid Etch.

### Estimating

#### Supply

Galvashield CC Bedding Mortar : 5kg bags

#### Yield

Galvashield CC Bedding Mortar : Sufficient for between 10-20 CC units dependant on unit size

Allowance should be made for wastage when estimating quantities required.

### Limitations

#### Low temperature working

When the air or contact surface temperatures are 5°C or below on a falling thermometer, warm water (30-40°C) is recommended to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted.

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## High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store unmixed material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (iii) Try to eliminate application during the hottest times of the day.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.
- (v) Water (below 20°C) should be used for mixing the grout prior to placement.

## Storage

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

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 details refer to appropriate Product Safety Data Sheet.

### Fire

Galvashield CC Bedding Mortar is non-flammable.

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#### Important note

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