

Controlled Low Resistivity Mortar for Galvanic Corrosion Protection Systems

Description

Galvashield Embedding Mortar is a controlled resistivity mortar for use with Galvashield surface mounted distributed anode (SM-DAS) corrosion protection systems. The mortar is designed to provide a low resistance environment around the anode and improve performance.

Uses

- Galvashield SM-DAS anode galvanic corrosion protection anodes are designed to protect steel elements in a structure from corrosion.
- The Galvashield Embedding Mortar is used in conjunction with the galvanic anodes.
- The mortar is used to grout anodes in vertical or horizontal situations.
- It also is used to fill grooves which house the anode lead wires.
- It is also used to provide an electrolytic bridge between the anode and the original concrete substrate.

Advantages

- Easy to use
- Controlled resistivity mortar
- Portland cement based
- High pH mortar with reservoir of alkali to resist acid generation at the anode
- High bulk density
- Free of carbonaceous or other oxidizable materials

Properties

Compressive strength:	28 MPa
Bond strength:	1.5 MPa
Resistivity:	5000 $\Omega \cdot \text{cm}$
Set time:	3hr (initial) 6hr (final)

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. 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.

Installation Instructions

Mixing

Galvashield Embedding Mortar should be mixed with a slow speed drill (400/500 rpm) and paddle. Suggested mixing: add 3.2 to 4.0 litres of water to each 20 kg bag of Galvashield® Embedding Mortar. Water can be added or omitted to achieve grout consistency desired for placement. Mix for three minutes until fully homogeneous. **Mix only as much grout as can be installed in 20–30 minutes.**

One 20kg bag is sufficient for 15 - 17 Galvashield SM-DAS anodes

Galvashield Embedding Mortar may exhibit satisfactory handling characteristics even though inadequately mixed. This will result in a significantly lower level of performance or possible failure. It is therefore essential that mixing instructions are strictly adhered to with particular emphasis on the quantity of water used and the time of the mixing operation..

Installation instructions for Galvashield SM-DAS

Refer to the Galvashield SM-DAS anode TDS and Application Guidelines for detailed application instructions.

Use Galvashield Embedding Mortar to fill the area between the anode and the surface of the concrete. Mix the mortar as directed. If the concrete surface contains large voids or depressions, fill them with mortar to ensure no air gaps are left behind the anode. Use the custom V-notched trowel tool to spread the mortar completely along the entire length of the anode, leaving a ridged profile of the mortar to ensure proper bonding of the anode to the concrete.

Place Galvashield Embedding Mortar within 30 minutes of mixing to gain benefit of the expansion system and allow to cure for a minimum of 24 hours, without physical disturbance.

Supply

Galvashield Embedding Mortar 20kg (MTO): FC312002-20KG

One 20kg bag is sufficient for 15 - 17 Galvashield SM-DAS anodes.

Storage

Store in dry conditions in the original unopened containers for up to one year from date of manufacture. Avoid extremes of temperature and humidity.



Galvashield® Embedding Mortar

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