

Galvashield® Embedding Mortar

Controlled Low Resistivity Mortar
for Galvanic Corrosion Protection Systems

GALVANIC SYSTEMS



Galvashield® Embedding Mortar is a controlled resistivity mortar for use with Galvashield® corrosion protection systems. The mortar is designed to provide a low resistance environment around the anode and improve performance.

Features and Benefits

- Easy to use, just add water
- 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

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 deleted 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.

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 Type 2 anode installations (e.g. Galvashield® CC, Galvashield® Fusion®)

Standing water should be blown from drilled holes using compressed air. Galvashield® Embedding Mortar is injected by hand pump to the rear of the hole to avoid air entrapment. Ensure sufficient grout is placed in the bottom of the hole to completely embed the entire active length of the Galvashield® discrete anode. The thixotropic nature of the Galvashield® Embedding Mortar will prevent significant flow from vertical and overhead holes.

For Galvashield® SM-DAS

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.

Galvashield Embedding Mortar is a cement-based mortar and therefore it must be cured immediately after finishing in accordance with good concrete practice.

Technical Support

Packaging	5kg and 20kg bags
Shelf Life	12 Months
Compressive Strength	28 N/mm ²
Pulloff Strength	1.5 MPa
Resistivity	5000 Ω•cm
Set Time	2 hr 45 min (Initial) 5 hr 45 min (Final)
Custom V-Notched Trowel	For effectively applying Galvashield® Embedding Mortar

Applications

- Galvashield® 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 leadwires.
- It is also used to provide an electrolytic bridge between the anode and the original concrete substrate.



Galvashield® Embedding Mortar

Controlled Low Resistivity Mortar
for Galvanic Corrosion Protection Systems

GALVANIC SYSTEMS



Health and Safety

Galvashield® Embedding Mortar is alkaline and should not come into contact with skin and eyes. Avoid inhalation of dust during mixing. Gloves, goggles, and dust mask should be worn. If contact with skin occurs, wash with water. Splashes to eyes should be washed immediately with plenty of water and medical advice sought.

Related Documents

A range of related documents are available including installation instructions, guideline specifications, project histories, applications, and SDS. For more information, contact Vector Corrosion Technologies.

About Vector

Vector Corrosion Technologies takes pride in offering technically advanced, cost effective corrosion protection solutions to extend the service life and improve the durability of concrete and masonry structures around the world. Vector has earned numerous project awards and patents for product innovation and is committed to a safe, healthy and sustainable environment.

For additional information on concrete preservation and sustainability, visit [WeSaveStructures.Info](https://www.VECTORCORROSION.COM).

For additional information or technical support, please contact any Vector office or our extensive network of international distributors.

Vector Corrosion Technologies

Vector-Corrosion.com

Canada

Winnipeg, MB
(204) 489-9611
info@vector-corrosion.com

United States

Lexington, KY
(813) 830-7566
info@vector-corrosion.com

Indonesia

Nusa Tenggara Barat
+62 8213 777798
info@vector-corrosion.com

United Kingdom

Cradley Heath, UK
(44) 1384 671 400
infoeu@vector-corrosion.com

United Arab Emirates

Dubai, UAE
+971 50 659 7322
infome@vector-corrosion.com

Australia

Redhead, NSW
+61 497 249 868
infoau@vector-corrosion.com



Galvashield, Vector and the Vector logo are registered trademarks.
US and international patents apply. © 2023 Vector Corrosion Technologies.

12/2023

Contact Us



We Save Structures™

[Vector-Corrosion.com](https://www.VECTORCORROSION.COM)

2/2