

Product Evaluation

RE: Review of Vector Galvanode DAS

PRODUCT

Galvanode DAS Anode is designed to neutralize or slow down new corrosion cells around reinforcing steel in concrete repair work. This product is distributed by Vector Corrosion Technologies.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Galvanode DAS is a distributed anode system designed to provide corrosion control or cathodic protection to concrete decks, columns, beams and walls. Galvanode DAS galvanic anode system is distributed over concrete and masonry structures to provide global corrosion protection. Product web link: <http://www.vector-corrosion.com/>

DESCRIPTION

Individual Galvanode DAS anode components are typically square, rectangular or circular in cross section and can be supplied in lengths of up to 7.5 ft (2.3 m). The system is quickly and easily installed to provide corrosion protection for a variety of applications. The system can be encased in new concrete, embedded in concrete overlays, encapsulated inside reinforced concrete jackets or used in conjunction with stay-in-place FRP or steel jackets for column and pile protection.

POTENTIAL USAGE

The Galvanode DAS is suitable for concrete jacketing/section enlargement, galvanic jackets for columns and piles, galvanic deck overlays, conventionally reinforced and prestressed/post-tensioned concrete elements bridge deck repairs, joint replacement and interface applications between new concrete and existing concrete.

STANDARDS

ACI 222-R
ASTM B 418 Type II
ASTM B69

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has listed similar technology, Galvashield XP Embedded Galvanic Anodes, on the Product List. The product has been specified by many US DOT's and Provincial transportation departments. Alberta Transportation has had no experience with Galvanode DAS. The City of Edmonton has used on the James MacDonald Bridge.

APPLICABLE STANDARDS

Alberta Transportation has no standard specifications for cathodic protection. Special provisions must be developed on a site specific basis to account for varying reinforcing steel densities.

RECOMMENDATIONS:

Galvanode DAS be listed as a Proven Product under Alberta Infrastructure and Transportation Products List, Corrosion Protection, Galvanic – Proprietary.

TRIAL PROJECTS

Capilano Bridge Edmonton Bridge File 76903

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