Corrspray™
Metalizing Anode System
Galvanic Cathodic Protection

GALVANIC SYSTEMS

Thermally Sprayed Galvanic Protection for Reinforced Concrete

Corrspray™ is a thermally applied galvanic anode system designed for the long-term protection of steel-reinforced concrete structures. Developed through a Federal Highway Administration research initiative, Corrspray™ uses a proprietary Aluminum-Zinc-Indium (Al-Zn-In) alloy wire that is electric arc-sprayed directly onto prepared concrete surfaces. This advanced process forms a strong, adherent metalized coating that delivers protective current through natural galvanic action, requiring no external power source, making it ideal for use in a wide range of climates and environments.

Applications

Corrspray™ is ideal for protecting large or complex concrete surfaces where non-intrusive, high-output galvanic protection is needed—without permanent formwork. It's widely used in transportation, marine, and public infrastructure projects.

Bridges: Decks, columns, and beams exposed to road salts

Parking Structures: Balconies, slabs, and columns facing weather and chlorides

Marine Infrastructure: Piers, wharfs, and splash zones

Prestressed Concrete: Safe, surface-applied protection

Urban & Coastal Assets: Vertical or overhead surfaces

Balconies & Facades: Discreet protection with visual consistency

**As with all galvanic protection systems, service life is dependent upon a number of factors including reinforcing steel density, concrete conductivity, chloride ion concentration, temperature, humidity, and anode spacing.*

VECTOR®

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Features and Benefits

The Corrspray™ Metalizing Anode offers a unique combination of performance, durability, and ease of application.

Key features include:

- **High Protective Current Output:** Provides 2–3 times the output of pure zinc anodes, ideal for actively corroding structures.
- **Superior Performance in Dry and Variable Climates:** Performs more reliably than zinc in low-humidity and temperature-fluctuating environments.
- **No Ongoing Power or Monitoring Requirements:** Galvanic operation eliminates external power supply needs and reduces maintenance demands.
- **Strong Adhesion to Concrete Surfaces:** Achieves 150–350 psi adhesion depending on substrate preparation.
- **Thermally Applied Using Arc Spray:** Allows for rapid installation over large areas—10–15 m^2/hr coverage rate.
- **Aesthetic Integration:** Gray/silver finish closely resembles natural concrete for discreet protection.
- **Flexible Wire Options:** Available in two wire diameters to meet project specifications and application requirements.
- **Long Service Life:** Up to 10–20 years* depending on structure environment

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About Us

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

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Vector products are provided with a standard limited warranty against defects for a period of 12 months from the date of sale. To obtain a complete copy of Vector's limited warranty, contact Vector or visit www.vector-corrosion.com/warranty.pdf. Contact Vector for information on extended warranties. User shall determine the suitability of the products for the intended use and assumes all risks and liability in connection therewith. For professional use only; not for sale to or use by the general public.

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