DAC-Anode® Overcoat

For Reinforced Concrete Cathodic Protection

Inevitable

Aging concrete infrastructure and its degradation, is unfortunately accepted as inevitable across the modern world. Spalling and cracking of the concrete surface due to corrosion is common and while the financial impact of repairs is indeed staggering, the devastating societal impact of a failure should be foremost in the minds of owners and operators.

Conventional repair techniques address only the symptoms of the problem (spalling and cracking), not the root cause (corrosion). This results in a spiraling repair/degradation cycle and when the root cause is finally addressed, conventional corrosion prevention systems prove to be costly and destructive to implement.

Features & Benefits

+ Can be applied to new or rehabilitated surfaces.
+ Minimal installation costs and zero structural risk due to a non-destructive installation technique.

Proven

DAC-Anode® is the original non-destructive corrosion prevention solution for steel reinforced concrete. DAC-Anode® has decades of proven service throughout the world and provides existing structures with a new lease on life, at minimal cost to owners and operators. DAC-Anode® forms the anode component of a cathodic protection system, which is designed to distribute corrosion halting current to steel reinforcement. However, DAC-Anode® is unique because it comes as a single component coating rather than an expensive alloy mesh. This means that DAC-Anode® can be applied to the surface of the concrete, rather than needing to be embedded like legacy anode systems, saving time and money while still providing the same level of protection.

CORROSION SERVICE

Properties	Test Methods	Results
Water Vapour Transmission	CGSB 9-GP-2	43.1 PERMS
Light Resistance (100 hours)	CGSB 1-GP-71 (120.1) or ASTM E-188	Unaffected
Impact Resistance (on concrete backing)	CGSB 1-GP-71 (147.1)	90 in-lb
Salt-Fog Resistance (500 hours)	ASTM B-117-62	Unaffected
Freeze-Thaw Resistance	20 cycles of room temperature in water to -12°C (10°F)	No cracking, checking or chipping under 10x magnification
Accelerated Weathering (5,500 hours)	CGSB 1-GP-71 (122.2)	No cracking or chipping under 10x magnification
Fire Resistance	CGSB 1-GP-71 (118.4)	No smoke, flame or afterglow. Destruction of coating confined to flame impact area

Technical Data

Generic Type	Acrylic emulsion
Colour	White (Other colours available on request)
Solids by Volume	47% ± 2%
Volatile Organic Compound (V.O.C)	150 grams/liter (1.25 lbs./gal.)
Mixing Ratio	Not applicable
Thinner	Not recommended
Clean Up	Hot water
Pot Life	Not applicable
Application Method	Roller or spray
Number of Coats	1 or 2, depending on substrate
Recommended Thickness	87–175 microns (3.5–7 mils) DFT depending on substrate porosity
Theoretical Coverage	5.3 m^2/liter @ 87 microns DFT/coat (215.9 ft^2/gal. @ 3.5 mils DFT) 2.65 m^2/liter @ 175 microns DFT (107.9 ft^2/gal. @ 7 mils DFT)
Drying Time @21°C (70°F)	Tack free: 2 hours Full cure: 4–7 days
Packaging	3.78 & 18.9 liters (1 & 5 US gallons)
Shelf Life	One (1) year in original unopened container

Description

DAC-Anode® Overcoat is a single component, acrylic emulsion, water-based finish coat for use as a topcoat over DAC-Anode® WB Conductive Coating. Easy to apply and cleans up with soap and water. Dries quickly to a matte finish, has excellent flexibility and maintains colour when exposed to normal weathering and mild industrial environments. Easily re-coated after extended periods.

Characteristics

- Low V.O.C water-based materials.
- One component material.
- Available in a variety of colours.
- Excellent adhesion to damp surfaces.
- Flexible and crack resistant.
- Thicker than conventional paint.

SAM-PCP-18-0001_REV4

CORROSION SERVICE

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