DAC-Anode® WB

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.

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.

Features & Benefits

+ Can be applied to new or rehabilitated surfaces.
+ Minimal installation costs and zero structural risk due to a non-destructive installation technique.
+ Environmentally friendly, single component water-based acrylic copolymer achieves recommended thickness in a single coat.
+ Can be top coated in an array of colours with DAC-Anode® Overcoat which is flexible, crack resistant and weather resistant.

CORROSION SERVICE

Technical Data

Generic Type	Single component water-based acrylic copolymer
Colour	Black
Solids by Volume	40% ± 2%
Solids by Weight	54% ± 2%
Volatile Organic Compound (V.O.C)	103 grams/liter (0.86 lbs./gal.)
Mixing Ratio	Not applicable
Induction Time	Not applicable
Thinner	Not recommended
Clean Up	Water
Pot Life	Not applicable
Suggested Primer	Not applicable
Application Method	Brush, roller and spray
Recommended Thickness With primary anode wire (platinum clad) at 10 mA/m² (0.93 mA/ft²) anode output and wire/wire spacing of:	**5 m (16.4 ft) max:** 750 microns wet–300 microns DFT (30 mils wet–12 mils DFT) **2.5 m (8.2 ft) max:** 500 microns wet–200 microns DFT (20 mils wet–8 mils DFT)
Theoretical Coverage	1.3 m²/liter @ 300 microns DFT (52.9 ft²/gal. @ 12 mils DFT)
Coverage (5% Loss)	1.2 m²/liter @ 300 microns DFT (48.9 ft²/gal. @ 12 mils DFT)
Drying Time @21°C (70°F)	Dry hard: 3–4 Hours Re-coat: 4–6 Hours
Specific Resistivity	<0.8 OHM cm (hard)
Linear Resistance	**<300 OHM:** 7.6 cm x 1.8 m x 400 microns DFT (3 in x 5.9 ft x 16 mils DFT) **<400 OHM:** 7.6 cm x 1.8 m x 300 microns DFT (3 in x 5.9 ft x 12 mils DFT)
Packaging	3.78 & 18.9 liters (1 & 5 US gallons)
Shelf Life	Six (6) months in original unopened container

Description

DAC-Anode® WB is a single package, electrically conductive coating for application on properly prepared reinforced steel concrete structures. Intended for use as an impressed current cathodic protection system anode, DAC-Anode® is designed to distribute direct current to embedded reinforcing steel. Electrical connection to the DAC-Anode® WB coating is accomplished by means of small tri-metal platinum-clad wires embedded into the coating.

Recommended Use

Conductive coatings are ideal for cathodic protection of reinforcing steel in balconies, walkways, columns, suspended slabs, under decking, piers, piles, pile caps, sea walls, railings, bulk-heads, etc.

Characteristics

- Low V.O.C water-based materials.
- One component material.
- Recommended DFT achievable in one coat.
- Easy to apply.
- Can be top coated with DAC-Anode® Overcoat, available in an array of colours to yield an aesthetically pleasing appearance.

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CORROSION SERVICE

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