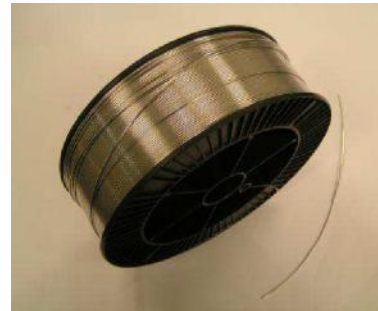


**Description**

Thermally sprayed galvanic anode for the cathodic protection of reinforced concrete structures developed under a Federal Highway Administration research contract. The anode consists of an Aluminium-Zinc-Indium\* (Al-Zn-In) wire, which is thermally sprayed onto the concrete surface using the electric arc process where two wires of metal are energized and melted, then propelled towards a prepared surface at a high rate of speed to create a dense coating that adheres strongly to the substrate.



**Application**

- Balconies
- Columns and beams
- Bridges
- Parking garages
- Piers and wharfs
- Prestressed concrete

**Features and Benefits**

- Higher current output and protection levels; up to 2 to 3 times of zinc.
- More effective in drier, less humid climates in comparison with pure zinc.
- More effective over a wider ambient temperature range in comparison with pure zinc.
- Low maintenance costs.
- Aesthetically pleasing – gray/silver color resembling concrete.
- Adhesion strength of 150 to 350 psi – depending on concrete substrate.
- Life expectancy is up to 20 years.\*\*



**Material Specification**

Nominal Chemical Composition .....	Proprietary blend of Al-Zn-In
Maximum Cu Content.....	100 ppm
Solid Wire Outer Diameter .....	3.175mm (1/8in) OR 2.00mm (0.0787in)
Coating Density.....	3.24g/cm <sup>3</sup>
Plastic Spool Dimensions.....	10cm wide x 30cm dia. (4in x 12in)
Nominal Weight per Spool.....	10 kg (22 lbs)
Estimated Life – Marine Environment** .....	10-15 years
Estimated Life – Northern Deicing Salt Environment** .....	15-20 years
Open Circuit Potential in Simulated Pore Water Solution .....	-1.6 V (CSE)



**Application Data**

Surface Preparation .....	Brush Blast
Minimum Recommended Thickness .....	300 microns (12mils)
Estimated Coverage at 300 microns .....	1.0kg/m <sup>2</sup> (0.2lb/ft <sup>2</sup> )
Typical Application Rate at 300 microns (arc spray) .....	10-15 m <sup>2</sup> /hr (100-150 ft <sup>2</sup> /hr)



\*Patent US 6673309

\*\*As with all galvanic protection systems, service life and performance is dependent upon many factors including reinforcing steel density, concrete conductivity, chloride concentration, humidity and anode spacing.

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