CORROSION RATE MONITORING PROBES - Concrete Cathodic Protection

Corrosion rate monitoring probes are designed for installation during the construction of structures to provide information on the corrosion of the reinforcement and the condition of the concrete. This is done in the form of the following measurements:

- Corrosion potential (Ecorr) of the probe working electrode and the main reinforcement with respect to the probe reference element.
- Corrosion rate(Icorr) of the probe working electrode and the main reinforcement using the linear polarization resistance (LPR) method

2.5 mm x 4.6 mm x 0.6 mm

- Concrete Resistivity
- Concrete temperature



Major Applications - Concrete Cathodic Protection

We can provide this product to suit your specification and requirements

MMO RIBBON ANODE - Concrete Cathodic Protection

Anode Ribbon Mesh is a key component for Cathodic Protection systems in new reinforced concrete structures. It is composed of a precious metal oxide catalyst sintered onto an expanded titanium mesh substrate.

MATERIAL SPECIFICATIONS

Anode Performance:

Diamond dimensions

Maximum anode concrete interface current density:

BS EN 12696 / FHWA limit 110 mA/m²

Short-term limit 220 mA/m²

Current Rating at 110 mA/m2 (BS EN 12696)

Expected life (NACE Standard TM02944-94)	75 years	
Catalyst	Mixed Metal Oxide	
Dimensions common to all types		
Coil length	76 m	
Expanded thickness	0.9-1.0 mm	

Туре	Width	Current Output	Anode Surface Area
Α	10mm	2.8 m.Amps / m	0.027m² / m
В	12.7mm	3.5 m.Amps / m	0.032m ² / m
С	19mm	5.28 m.Amps / m	0.048m² / m

Substrate: Titanium, Grade 1, per ASTM B265 Composition Coefficient of thermal expansion 8.7 x 10-5/°K 15.6 W/m °K Thermal conductivity at 20°C Electrical resistivity 0.000056 ohm-cm Modulus of elasticity 105 GPa 245 MPa Tensile strength Yield strength 175 MPa Elongation 24% minimum

CORROSION RATE MONITORING PROBES





MMO TITANIUM MESH **RIBBON ANODES**



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