



Betelguard MMO coated titanium tape anode is highly durable and a key component for Lexi-Hybrid Cathodic Protection System for reinforced concrete structures. It is composed of a precious metal oxide catalyst sintered to specially designed thin titanium tape substrate.

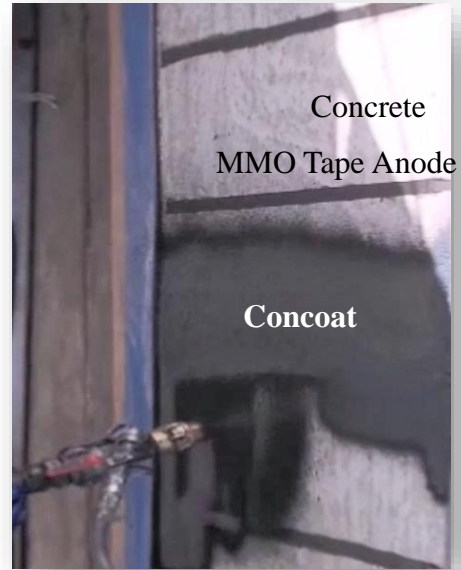
Features and Benefits

- Because MMO tape anodes are attachment on a concrete surface with di-electrical adhesive or tape, electrical short and near-short circuits do not occur even though the rebar-concrete cover is small or rebar chairs are exposed.
- Easy Installation without cutting and drilling concrete significantly reduces the installation time and cost.
- The anode system can be operated as high as 300 mA/m² on a concrete surface without damaging the anode system.
- Limitation of the conventional anode current density (e.g. 110 mA/m²) does not exist because chlorine gas developed on the anode surface diffuses away through porous Concoat overlay before turning to acid.
- The anode life can simply be adjustable from 40 to 150 years.

Nominal Dimensions:

Width:	20 mm
Thickness:	0.07 mm
Length:	Specified
Anode Life:	40 to 150 years (specified)
Anode Linear Resistance:	0.4 ohm/m

Betelguard Titanium Tape Anode



Anode Performance

Max current rating at 150 mA/m ² (15 mA/ft ²):	3 mA/ m (0.9 mA/ft)
Short term limited current at 300 mA/m ² (30 mA/ft ²):	6 mA/m (1.83 mA/ft)
Minimum anode life (NACE Standard TM02944-94):	40 years
Catalyst Mixed Metal Oxide:	Iridium oxide base (No Ruthenium)

Substrate

Composition:	Titanium, Grade 1 per ASTM B265
Coefficient of thermal expansion:	8.7 x 10 ⁻⁵ /°K (0.000048/in/in/°K)
Thermal conductivity at 20°C:	15.6 W/n ² -°K (9.0 BTU/hr/ft ² /°F/ft)
Electrical resistivity:	0.000056 ohm-cm (0.000022 ohm-in)
Modulus of elasticity:	105 GPa (14,900,000 PSI) minimum
Tensile strength:	245 MPa (35,000 PSI) minimum
Yield strength:	175 MPa (25,000 PSI) minimum
Elongation:	24% minimum



Betelguard MMO coated titanium tape anode can be supplied with pressure sensitive special adhesive.