Impressed Current Cathodic Protection (ICCP)

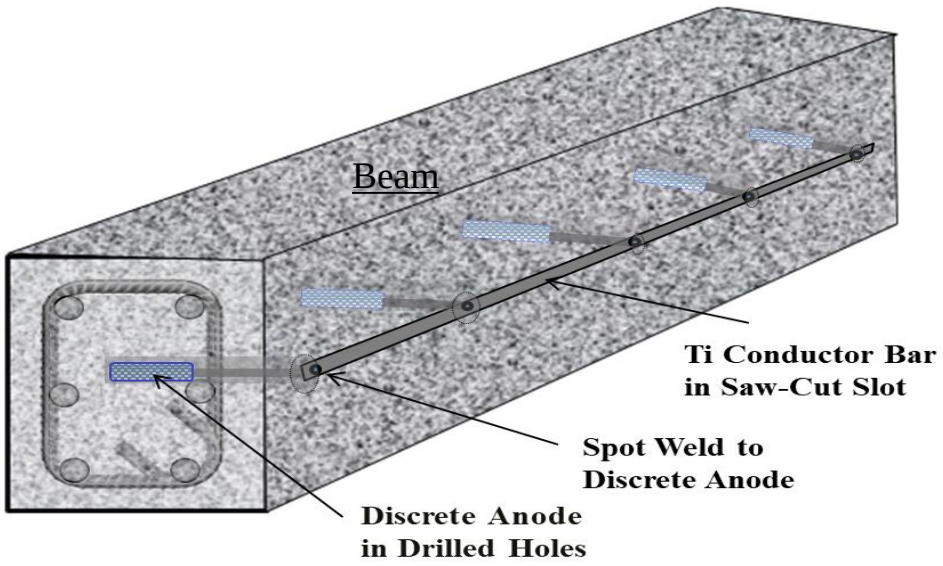
Betelguard High-Performance Discrete MMO Coiled Anode

Betelguard High-Performance Discrete MMO Coiled Anode is to protect reinforced concrete structures. When MMO anode is operated at a higher current density (>110mA/m^2), the high concentration of chlorine gas evolved from the anode dissolves the surrounding concrete.

Therefore, the maximum anode current density of conventional MMO anode is limited to 110 mA/m^2. However, when the chlorine gas is vented out from the anode-concrete interface, the anode can be operated at higher current density without generating the acid.

Features

- Anode current density: Max. 440 mA/m^2 (40 mA/ft^2)
- Single titanium wire coiled anode
- True chlorine gas venting discrete anode to prevent acid generation at the anode-concrete interface.
- Long life: min. 50 years
- Rejuvenate-able anode with water or humectant when the anode-concrete interface is dry due to the electrochemical osmosis.
- Can be used for both new and existing concrete structures.



Betelguard High Performance Discrete MMO Coiled Anode

Betelguard

Maximum Current Outputs

25 mm Diameter Anode

Tube Length (mm)	50	100	150	200	250	300	350	400
Max. Current Output (mA)	2.8	5.5	8.3	11.0	13.8	16.6	19.3	22.1

30 mm Diameter Anode

Tube Length (mm)	50	100	150	200	250	300	350	400
Max. Current Output (mA)	3.3	6.5	9.8	13.0	16.3	19.5	22.8	26.0

40 mm Diameter Anode

Tube Length (mm)	50	100	150	200	250	300	350	400
Max. Current Output (mA)	4.3	8.7	13.0	17.4	21.7	26.0	30.4	34.7

Mechanism of Chlorine Gas Venting and Rejuvenate-able anode when the anode-concrete interface is dry due to the electrochemical osmosis.