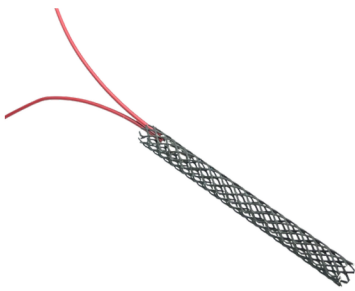


Technical Data Sheet

CorrAnode ICCP

Discrete anode for Impressed current cathodic protection of steel in concrete



Description

CorrAnode is a discrete ICCP anode specifically designed to provide electrochemical protection, known as impressed current cathodic protection (ICCP), to protect reinforcing steel in concrete from corrosion in accordance with the international standard EN ISO 12696.

The current required for cathodic protection is provided by a *DC power source* connected through an anode feeder cable.

Visit www.corrpre-international.com for our power supplies.

Application

CorrAnode is a discrete MMO-coated titanium anode consisting of an MMO-coated titanium electrode. This anode is specifically designed for application in pre-drilled holes which can be used in combination with our silicate-based grout (**SiliGrout**) or just traditional mineral-based grouts preferably recommended by certified CP designers or engineers.

The anodic electrochemical reactions taking place on the electrode material produce hydrogen ions (H^+) and oxygen gas (O_2). The acidification by the anode reaction is compatible with the grout under the specified operating conditions. The oxygen gas will be easily dissipated by the natural porosity of the silicate based grout.

When using conventional mineral-based grouts, we recommend a maximum current density of 110 mA/m² of anode surface area to comply with the manufacturer's recommended anode service life.

Features of application

- bridge decks or beam supports and columns
- large parking garages
- cooling towers with large surface areas
- zones of newly cast concrete bonded to an existing structure

Typical features

The certified MMO coating has a design life of at least 30 years under the specified operating conditions.

In combination with our SiliGrout, these anodes can operate at high current densities without adversely affecting the anode bed due to anodic acid production.

Due to their durability and long service life, MMO-coated titanium anodes require minimal maintenance once installed.

Technical Data Sheet

ICCP ANODE MMO - COATED TI MESH

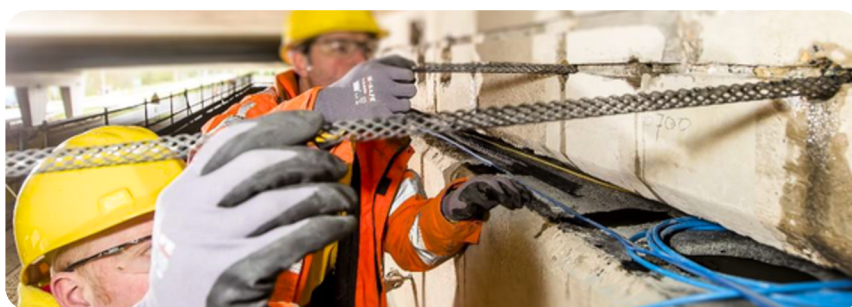
TOTAL EXPANDED ANODE SURFACE AREA	45 CM ²
EXPECTED DESIGN LIFE	30 YEARS AT 5 MA PER 10 CM OF ANODE LENGTH
DIAMETER	12/14 MM
LENGTH	MAX LENGTH OF 1000 MM

Substrate

CorrAnode is installed as a drilled-in anode in pre-drilled holes. The holes should have a minimum diameter of 15 mm. The space between the anode and the concrete should be filled with our SiliGrout or mineral-based grouts which are normally used for drilled-in anodes for reinforced concrete structures.

ICCP design

In line with other cathodic protection (CP) systems, a CP system based on CorrAnode discrete anodes should be designed by qualified and certified engineers and installed by qualified and experienced contractors. Refer to the international standard ISO 12696 "Cathodic protection of steel in concrete" and EN 15257. For further recommendations refer to the General Description and Installation Guidelines.



All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of CorrPRE's products, are given in good faith based on CorrPRE's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CorrPRE's recommendations.

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Approved by: R. Giorgini