

# iCOR<sup>®</sup>

NDT Device for Detecting and Measuring the Rate of Rebar Corrosion

> The iCOR has proven to be robust onsite and I am confident in the results I see.

Dr. Jose Pacheco Associate CTL Group





Non-Invasive Wireless Technology

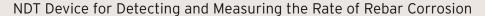


Fast & Accurate Real-Time Data in Seconds



Simple & Easy-To-Use



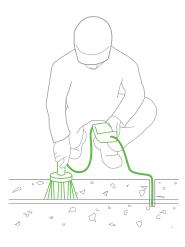




#### Giatec iCOR



### **Other Commercial Devices**



# **Overview**

iCOR is the most advanced wireless corrosion measurement device for evaluating the health of reinforced concrete structures. iCOR detects corrosion potential, corrosion rate, and in-situ electrical resistivity. Unlike other devices which must drill into the concrete and physically connect to the rebar to evaluate it, the iCOR is completely non-invasive. Measurements are taken outside the concrete without damaging the structure or compromising its integrity. Data is collected, analyzed, and stored wirelessly within the mobile app on the tablet provided. This information is then presented as contour maps which are accessible in real-time. In 2019, the iCOR was presented the Corrosion Innovation Award by the National Association of Corrosion Engineers (NACE).

## **Features**

### **Software**

- Real-time contour mapping of corrosion rate, electrical resistivity, and corrosion potential
- Accurate non-subjective algorithm-based interpretations
- Multiple and directional parameters tested in a single measurement
- · Easy reporting and data exporting

## Hardware

- · Non-destructive, and non-invasive wireless technology
- Measurements obtained and evaluated within seconds
- Simple and easy-to-use with minimal training required
- Single-person operation device
- Tablet included with free Android app
- Award-winning patented technology

# Patented Technology

iCOR benefits from the patented CEPRA technology that makes it possible to estimate the rate of rebar corrosion through a non-invasive, non-destructive approach. This means that the need to connect the device to the rebar to obtain measurements, which is the case for other commercial devices, is eliminated with the iCOR.

# **Applications**

- Detection of corrosion in reinforcement
- Measurement of rebar corrosion rate
- Evaluation of corrosion potential of rebar
- Measurement of in-situ electrical resistivity
- Assessment of concrete durability
- Rehabilitation and repair of concrete structures



20v