

CORRODEC®2G

Concrete is more widely used than any other man-made material and has been a construction staple for centuries. And while concrete can be a very durable material, it is not immune to deterioration.

The only way to see past the concrete is to have 'eyes' in the concrete itself.

Concrete KNOW-HOW from the inside-out

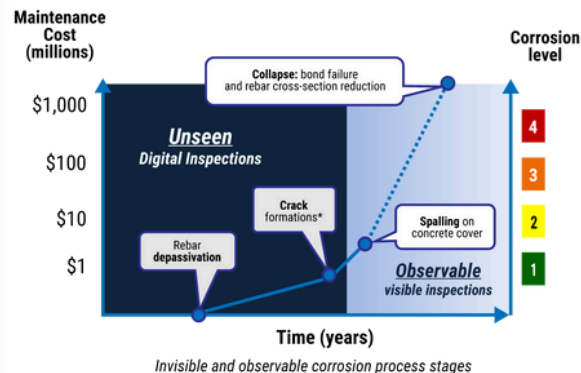


InfrastructureTek uses RFID technology, that once placed inside concrete next to the reinforcing steel, can assess its condition and transmit real-time readings for a lifetime of up to 80 years.

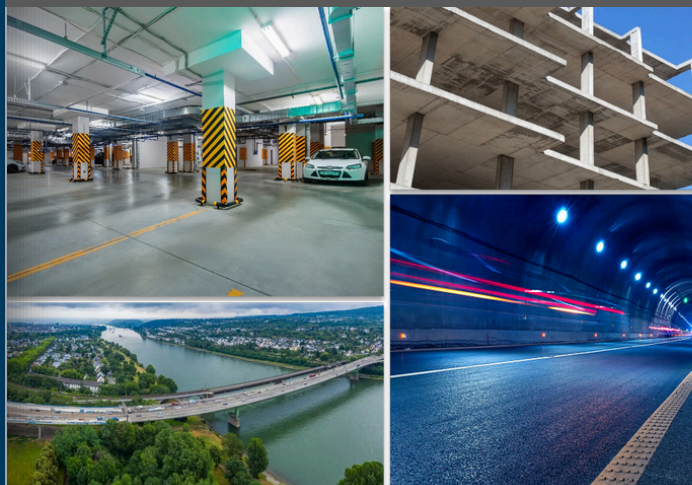
Our "hockey puck" size wireless sensors, which require no batteries or external wires, monitor the structure's internal health and unseen concrete structural problems before they become visible.

NB-IOT EARLY DAMAGE DETECTION

Concrete infrastructure must meet critical standards for strength, stability, and durability. But, early-stage internal damage from environmental factors such as moisture and chlorides often goes undetected.



This hidden damage can compromise long-term performance, impact future mobility, and raise maintenance and repair costs. Therefore, early detection is essential for preserving structural integrity.



REAL-TIME READINGS TO PREVENT FUTURE DAMAGE



SOLUTIONS

I-Tek specializes in remote structural monitoring via NB-IoT sensors offering a variety of monitoring solutions:

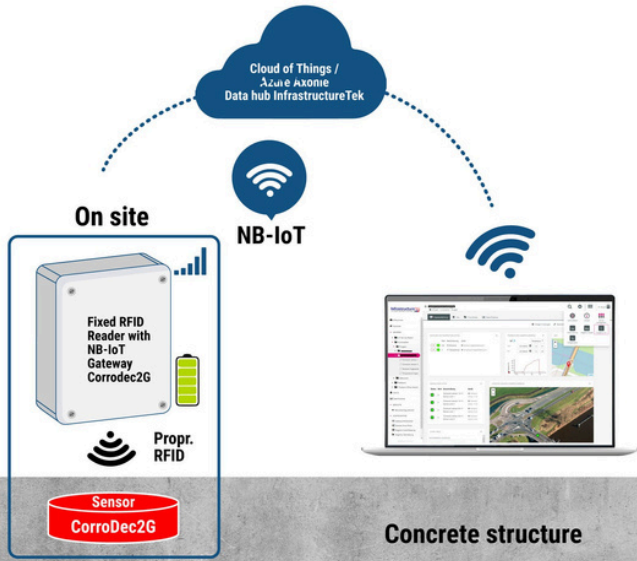
- Humidity Sensors
- Corrosion Sensors

CORRODEC®2G Sensors:

- Increased Sustainability & Durability
- Allows Effective Lifecycle Monitoring
- 24/7 Monitoring and Data Transfer
- Reduced Repair & Maintenance Costs
- Predictive Maintenance
- Reduced Physical Inspections Costs
- Increased Safety
- 24/7 Remote Monitoring using NB-IoT
- Sensors will stay in place fully operational for over 80 years.

OUR TECHNOLOGY

Once the corrosion begins, it will spread when left untreated jeopardizing the safety of the structure and its tenants.



Our wireless sensors are passive and require no direct energy. It is power induced from the outside via a gateway or a handheld reader. Once the sensors are fully embedded within the concrete, it automatically transmits via our "Universal Monitoring System" to our Data Hub.

- Simple operation & evaluation
- Wireless and powerless design
- Remote accessibility
- Control over maintenance and repair costs
- Applicable to both new and existing structures
- Online monitoring through a proprietary gateway with cost-efficient NB-IoT technology



PLATFORM / VISUALIZATION

24/7 Web-based visualization of measured data with alarm capabilities

WHO WE ARE

InfrastructureTek (I-Tek) is a US-based trusted technology partner that provides structural health monitoring technologies and services for the built environment.

Our RFID technology includes innovative wireless corrosion, and humidity sensor solutions for preventive and sustainable online monitoring of structures with real-time readings for the lifetime of the structure.

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**FOUNDATIONS OF THE FUTURE:
STRUCTURAL HEALTH MONITORING
FOR RESILIENT AND SUSTAINABLE
INFRASTRUCTURE**

InfrastructureTek
CONSTRUCTION TECHNOLOGIES

**Monitoring Solutions for
Concrete Structures**

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