

Vector®

Corrosion Surveys Testing and Evaluation

Description

One of the major underlying causes for the repair of concrete structures is corrosion of the embedded reinforcing steel. Corrosion activity left unchecked can lead to structural and safety issues and in the worst cases structure replacement.

Prior to entering into a major repair project, a condition survey is recommended to gain an understanding of the structure, determine the cause and extent of the problem, and to assist in the preparation of construction bid documents. Corrosion testing and evaluation is an important aspect of the concrete condition survey. Investing in this type of evaluation provides detailed information for the design engineer or owner to select the most cost effective repair and corrosion mitigation strategy that meets the project objectives.

Services Offered

- Visual inspection to note cracks, spalls and exposure conditions
- Delamination survey to locate existing defects
- Concrete sampling for chloride analysis
- Depth of carbonation (pH)
- Half cell potential survey
- Depth of concrete cover
- Concrete resistivity
- Continuity of reinforcement
- Corrosion rate
- Preparation of drawings with survey results
- Summary and presentation of data
- Options for repair and corrosion mitigation

The actual scope of work is project specific and is tailored to meet the owner and engineer/architect requirements. For additional information or to receive a proposal for corrosion testing and evaluation services, contact Vector Corrosion Technologies.



Delamination survey



Chloride profile analysis



Half cell potential survey

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