



Corrosion Mitigation of Traditionally Reinforced Concrete Structures

May 5, 2022 / 2 p.m. EDT

Corrosion of reinforcing steel in concrete bridge structures is the number-one reason for premature deterioration of these structures. The cost of repairing this deterioration across North America easily runs into the billions of dollars on an annual basis. Utilizing MAPEI Corporation's vast array of corrosion-mitigation and prevention materials collectively saves owners millions of dollars in repair costs and ensures continued operation of bridge spans.

To select the best product technology for a given application, it is essential to have a basic understanding of the electrochemical-corrosion process. Therefore, this presentation will commence with an overview of the basics of electrochemistry as it pertains to corrosion of reinforcing steel. While this presentation is not intended to be a deep dive into electrochemistry, it is essential that presentation attendees have a basic understanding of electrochemistry so that they understand how and why these products work to delay, reduce and/or prevent corrosion of reinforcing steel in concrete bridge structures.

Once the basics of electrochemistry are understood, an introduction to the various corrosion-mitigation products and technologies that are available from MAPEI Corporation will be provided. For each product/technology, the advantages and limitations will be discussed in detail to allow attendees to determine which product from MAPEI is best suited for their various applications. Such issues as expected service life, compatibility with other products and ease of installation, among others, will be discussed.

Upon completion of the Webinar, attendees will be able to confidently determine which technology is best suited to a given application and ensure that the longest-lasting repair option is chosen. Being able to select the most appropriate technology and/or product ensures that the owner gets the longest-lasting repair at the most efficient cost, ensuring that future repairs and impact on traffic are minimized.

Attendees will:

- Gain a basic understanding of the electrochemical-corrosion process occurring in concrete bridge structures.
- Learn the mechanisms by which the electrochemical-corrosion process can be stopped, slowed or prevented.
- Become familiar with MAPEI's family of corrosion-mitigation products, including their advantages, limitations and compatibility with other products.

This is a presentation with *Roads & Bridges* magazine.

MKT: 22-1827

WEBINAR

Corrosion Mitigation of Traditionally Reinforced Concrete Structures

May 5 at 2 p.m. EDT

Duration: 60 min.*

* The Webinar will include a question-and-answer period.



Register here:

<https://www.workcast.com/register?cpak=2773529099135912&referrer=email>



About the presenter

Brian Stratman

Brian Stratman, P.E., is the Business Development Leader for Corrosion and Structural Strengthening with MAPEI Corporation. Brian's work experience includes structural design of commercial and retail structures, territory sales manager for power and industrial concrete repairs and grouting, and business development manager for steel piling, fiber-reinforced polymer (FRP) strengthening and corrosion mitigation. In his current role, Brian is responsible for business development and engineering support that is related to MAPEI's structural strengthening and corrosion product lines. He has more than a decade of experience that is related to the design and installation of FRP strengthening systems for concrete and masonry structures, and he is also a NACE-certified Cathodic Protection Technician (CP2). Brian is also an active member of the ACI 440 Strengthening Committee and ICRI Strengthening and Corrosion Committees.



MapeiDigital@mapei.com