

Repair of Concrete

In-House Seminar

TWO DAYS, 15 HOURS (15.0 PDHs/0.15 CEUs)

In-depth strategies and techniques for reliable concrete repairs

Who should attend: Owners and facility managers, concrete specialists and general contractors, civil and structural engineers, material suppliers, and architects

Program Content:

Day One

Condition Survey

Assessing damage and deterioration; Load testing; Identifying the causes; Developing reports; Nondestructive testing techniques

Repair Materials

Polymer-modified cements; Cementitious material selection process; Polymers

Surface Preparation

Equipment; Methods

Placement Methods

Concrete placement; Polymer placement; Other techniques

Crack and Joint Repairs

Identifying cracks and causes; Expansion joints; Contraction joints; Techniques

Questions and answers

Day Two

Repair of Corrosion-Damaged Structures

Bridge and transportation structures; Façade and balcony; Parking garages and plazas; Civil structures

Protective Systems for Concrete Structures

Membranes and waterproofing; Sealers and coatings

Structural Repair and Strengthening of Concrete Elements

Post-tensioning repair; Shear collars; External post-tensioning; Other techniques; Carbon and glass fiber reinforcement

Specifications and Contract Documents

General conditions; Bidding strategies; Technical sections

Group Exercise

An actual case study will be presented and based on what was learned at the seminar. Participants will break into small discussion groups to review the projects and recommend an appropriate repair system

Related Documents:

To expand attendees knowledge, ACI In-House Seminar customers may purchase multiple copies of related documents at 50% off the regular price.

- Guide to Formwork for Concrete (ACI PRC-347.2-17)
- Guide for Shoring/Reshoring of Concrete Multistory Buildings (ACI PRC-347.2-17)
- Guide for Tolerance Compatibility in Concrete Construction (ACI PRC-117.1-14)
- Guide to Identification and Control of Visible Surface Effects of Consolidation on Formed Concrete Surfaces (ACI PRC-309.2-15)
- Guide to Cast-in-Place Architectural Concrete Practice (ACI PRC-303-12)

Instructors:

Two industry experts will present this seminar.

Up to 40 copies of the presentation slides included. Additional copies can be purchased.

ACI is an approved education provider for AIA and ICC.



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