Repair of Concrete

In-House Seminar
TWO DAYs, 15 HOURS (15.0 PDHs/15.0 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 347)
• Guide for Shoring/Reshoring of Concrete Multistory Buildings (ACI 347.2R)
• Specifications for Tolerances for Concrete Construction and Materials and Commentary (ACI 117)
• Identification and Control of Visible Effects of Consolidation on Formed Concrete Surfaces (ACI 309.2R)
• Guide to Cast-in-Place Architectural Concrete Practice (ACI 303R)

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.

www.ConcreteSeminars.org