

# Concrete Repair Basics

## In-House Seminar

ONE DAY, 7.5 HOURS (7.5 PDHs/0.75 CEUs)

Best methods and materials for economical and effective concrete repairs

**Who should attend:** Engineers, repair contractors, material suppliers, maintenance personnel, and public works engineers

### Program Content:

#### Condition Survey

- Causes and types of deterioration
- Evaluating deteriorating concrete
- Determining the extent of potential damage
- Assessing the consequences and risks of material failures

#### Repair Techniques

- Removing damaged concrete
- Preparing existing concrete for repair
- Patching and overlays
- Repair techniques such as shotcrete, carbon fiber reinforcing, and chloride extraction

#### Repair Materials

- Selecting materials for different repair situations and environments, including sealants, protection systems, cementitious materials, and polymeric materials

#### Cracks and Joints

- Understanding cracks and joints
- Causes and effects of cracking
- Methods of repairing cracks and joints
- Installing expansion joints for elevated slabs and slabs-on-ground

#### Applications of Repair Techniques

- Case studies that utilize repair methods
- and materials for various types of structures

### Instructors:

Two industry experts will present this seminar.

### 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 for Conducting a Visual Inspection of Concrete in Service (ACI PRC-201.1-08)
- Causes, Evaluation, and Repair of Cracks in Concrete Structures (ACI PRC-224.1-07)
- Guide for Assessment of Concrete Structures Before Rehabilitation (ACI PRC-364.1-19)
- Strength Evaluation of Existing Concrete Buildings (ACI PRC-437-19)
- Guide to Concrete Repair (ACI PRC-546-14)

*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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