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)
• Course Notes authored by the instructors

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

ACI is an approved education provider for AIA and ICC.