

TECHNICAL DOCUMENTS

SP-333: Advances in Concrete Bridges: Design, Construction, Evaluation, and Rehabilitation

This Special Publication (SP) contains nine papers selected from two technical sessions held at The ACI Concrete Convention and Exposition – Spring 2018, Salt Lake City, UT. The objective of the SP is to present technical contributions aimed to understand the state of the art of concrete bridges, identify and discuss challenges, and suggest effective solutions for both practitioners and government engineers.

SP-334: Sustainable Concrete with Beneficial Byproducts

This Special Publication of the American Concrete Institute Committee 555 (Concrete with Recycled Materials) is a contribution towards improving the sustainability of concrete via using recycled materials, such as scrap tire rubber and tire steel wire fiber, GFRP waste, fluff, reclaimed asphalt pavements, recycled latex paint, and recycled concrete aggregate.

SP-335: Nanotechnology for Improved Concrete Performance

Many of the papers presented in this volume were included in the two-part session Nanotechnology for Improved Concrete Performance, sponsored by ACI Committee 241, Nanotechnology of Concrete at the ACI Convention in Philadelphia, PA, on October 26, 2016.

ACI UNIVERSITY ONLINE COURSES

On-Demand Course: Constructability – The Key to a Successful Project—Collaboration between the Engineer and the Contractor

Learning Objectives:

1. Recognize constructability challenges and how these affect productivity in the construction industry.
2. Describe how incomplete construction documents can impact construction costs.
3. Discuss the concept of constructability and its potential impact on construction costs and schedule.
4. Explain how simple forming details can significantly impact the cost of concrete formwork.

Continuing Education Credit: 0.1 CEU (1.0 PDH)

On-Demand Course: Self-Consolidating Concrete Testing Technician Certification Training (without ASTM standards) (2019)

Learning Objectives:

1. Introduction to Self-Consolidating Concrete;
2. Static Segregation of SCC Using Column Technique;
3. Slump Flow of Self-Consolidating Concrete;
4. Passing Ability of SCC by J-Ring;
5. Rapid Assessment of Static Segregation Resistance Using Penetration Test; and
6. Fabricating Test Specimens with SCC.

Continuing Education Credit: 0.35 CEU (3.5 PDH)

On-Demand Course: As-Cast Concrete Finishes: Specifications, Defects, and Repairs—What is a Surface Defect?

Learning Objectives:

1. Explain specifications and ACI 301 related to as-cast surface finish requirements.
2. Develop a plan to manage owner's expectations regarding acceptable surface finishes.
3. Know how to minimize honeycomb, bug holes, and sand streaks; as well as determine what type of surface blemishes require repair.
4. Describe good construction practices to minimize as-cast concrete finish blemishes.

Continuing Education Credit: 0.1 CEU (1.0 PDH)



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