

**TECHNICAL DOCUMENTS**

**10th ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete (SP-320)**

This publication contains 50 refereed papers from more than 33 countries. The purpose of this international conference is to present the latest scientific and technical information in the field of supplementary cementitious materials and novel binders for use in concrete.

**ACI 233R-17: Guide to the Use of Slag Cement in Concrete and Mortar**

This report addresses the use of slag cement as a separate cementitious material added along with portland cement in the production of concrete. This report does not address slags derived from the smelting of materials other than iron ores.

**ACI 207.6R-17: Report on the Erosion of Concrete in Hydraulic Structures**

This report outlines the causes, control, maintenance, and repair of erosion in hydraulic structures. Such erosion occurs from three major causes: cavitation, abrasion, and chemical attack. Design parameters, materials selection and quality, environmental factors, and other issues affecting the performance of concrete are discussed.

**ACI UNIVERSITY ONLINE COURSES**

**On-Demand Course: High-Performance Concrete Construction**

Learning Objectives

1. Discuss properties of concrete mixtures and the role of admixtures in placing long service life marine structures or bridges that are exposed to harsh environments.
2. Explain the advantages of ternary blends in both marine construction projects and the use of these blends in supertall concrete building construction.
3. Explain advantages of using self-consolidating concrete through supertall building concrete members.
4. Explain the advantages of performing pumping tests prior to final pumping operations in delivering concrete to elevated members in supertall structures.

**Continuing Education Credit: 0.1 CEU (1 PDH)**

**On-Demand Course: Tilt-Up Concrete Construction**

Learning Objectives

1. Recognize the artistic and aesthetic potential for tilt-up through evidence of existing structures, including their unique architectural concrete finishes.
2. Identify the unique and inherent characteristics of modern tilt-up that enable it to be a problem-solving method of construction for complex structures and programs.
3. Explain the pros and cons of various construction cranes used to form, cast, handle, lift, and place precast concrete panels using tilt-up construction.
4. Describe the information that is provided in precast panel drawing plans, and lift and bracing plans for the tilt-up panel construction.

**Continuing Education Credit: 0.1 CEU (1.0 PDH)**

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