

TECHNICAL DOCUMENTS

ACI 439.5R-18: Comprehensive Guide for the Specification, Manufacture, and Construction Use of Welded Wire Reinforcement

This report provides welded wire reinforcement (WWR) product information, material specifications, and design/detailing recommendations, with an overview of manufacturing, shipping, and construction use in various applications of concrete construction. **(Free to ACI Members)**

Mass Concrete and Thermal Cracking, a Joint ACI-JCI Seminar (SP-325)

The subjects of these papers include: 1) defining mass and thermally controlled concrete 2) design and planning considerations for mass concrete; 3) modeling and prediction of in-place concrete temperature development; and 4) physical testing of mass concrete.

E702.3-18: Designing Concrete Structures: Acceptance of Concrete Compressive Strength Test Results According to ACI 318-14

The design example, "Acceptance of Concrete Compressive Strength Test Results," works through a project situation in which the field engineer must evaluate the compressive strength results provided by a testing laboratory. The example follows the provisions of ACI 318-14, Building Code Requirements for Structural Concrete. **(Free PDF Download)**

ACI UNIVERSITY ONLINE COURSES

On-Demand Course: Why & How to Determine Concrete Surface pH Prior to Installing a Vinyl Flooring

Learning Objectives:

1. Explain the basics of pH and pH levels of concrete at various stages of its life.
2. Determine the upper pH limits for the adhesives and/or coatings specified in the design/construction project from technical data sheets and manufacturer warranties.
3. Examine whether current pH testing methodologies referenced in project specifications and contract documents provide correct test results.
4. Describe the implications and consequences of exceeding the pH tolerances of adhesives.
5. List the key points of ACI's Technote, "How to Determine pH of Concrete Surface prior to Installation of Flooring".

Continuing Education Credit: 0.1 CEU (1.0 PDH)

ACI UNIVERSITY ONLINE COURSES

On-Demand Course: Troubleshooting Concrete Pavements

Learning Objectives:

1. Describe the effect that changes in the chemistry of concrete mixtures have on set-time of concrete, including the relationship of aluminates and sulfates in concrete.
2. Explain how petrography is used to troubleshoot damage in deteriorated concrete.
3. List things to know before performing a forensic investigation on deteriorated concrete pavements that may include petrography.
4. Describe some examples of poor construction quality on concrete pavements, including poor practices with dowel bar placement, under- and over-consolidation, pavement edge blowout, surface texturing, and curing.

Continuing Education Credit: 0.1 CEU (1.0 PDH)



Career Center

Hiring the right people for the right jobs has never been easier.

Find the right candidate. Save money. Save time. The ACI Career Center is the right solution for your hiring needs.

Follow @ACICareerCenter to learn more.

www.concrete.org/careercenter