

CEU Course Index

Presented by CTS Cement Mfg. Corp. | AIA Provider: H931

CTS Cement is proud to be a recognized Provider of CEU courses for the Design & Construction community. Our program offers valuable information on a variety of topics related to concrete and concrete repair materials. We offer Learning Units related to:

- Calcium Sulfoaluminate (CSA) Cement Technology
- Type K Shrinkage-Compensating Concrete
- Rapid Hardening Hydraulic Cement Materials
- Polished Concrete

For your convenience, on site presentations are available to maximize the time invested for your entire design team. Contact us today to schedule your next learning opportunity! www.ctscement.com (800) 929-3030

TYPE K SHRINKAGE-COMPENSATING CONCRETE

Design with Confidence Using Type K Shrinkage-Compensating Concrete in Commercial Project Designs

This session provides an overview of Type K Shrinkage-Compensating Concrete and its use in common commercial applications. Its ability to minimize key challenges in concrete applications, like cracking, curling and drying shrinkage are discussed, as well as the advantages it offers in joint placement design and reduced in-service operations and maintenance costs. Guidelines for designing and specifying Type K are reviewed, as well as specification and installation “best practices” to ensure durable, long-term performance.

KSCC0615 (1 LU)

Design with Confidence Using Type K Shrinkage-Compensating Concrete in Industrial Project Designs

This course provides an overview of Type K Shrinkage-Compensating Concrete and its use in common industrial applications. Its ability to minimize key challenges in concrete applications, like cracking, curling and drying shrinkage are discussed, as well as the advantages it offers in joint placement design and reduced in-service operations and maintenance costs. Guidelines for designing and specifying Type K are reviewed, as well as specification and installation “best practices” to ensure durable, long-term performance.

KSCC0515 (1 LU)

Understanding Type K Shrinkage-Compensating Concrete in Bridge & Highway Design

This session reviews the fundamentals of Type K Shrinkage-Compensating Concrete technology and its use in Bridge & Highway construction projects. A review of key performance advantages of Type K is provided, along with common industry applications, key design considerations, specification recommendations, and best practices to ensure maximum long-term performance and successful installations.

BSCC0315 (1 LU/HSW)

Understanding Type K Shrinkage-Compensating Concrete in Water Management & Wastewater Treatment Facility Designs

This course reviews the fundamentals of Type K Shrinkage-Compensating Concrete technology and its use in Water Management and Wastewater Treatment construction projects. A review of key performance advantages of Type K is provided, along with common industry applications, key design considerations, specification recommendations, and best practices to ensure maximum long-term performance and successful installations.

WWSCC0515 (1 LU)

Understanding Type K Shrinkage-Compensating Concrete in Parking Structures & Other Post-Tensioned Project Designs

This course provides an overview of Type K Shrinkage-Compensating Concrete and its use in parking structures and other post-tensioned project designs. Its ability to overcome key challenges faced in concrete durability and long-term performance are discussed, as well as key advantages Type K offers in joint placement design, increased abrasion and impact resistance, reduced in-service operations and maintenance costs, and lower life cycle costs. Guidelines for designing and specifying Type K are reviewed, as well as specification and installation “best practices” to ensure durable, long-term performance.

KSCC1115 (1 LU)

RAPID HARDENING HYDRAULIC CEMENT MATERIALS

Designing Performance & Project Efficiencies into Concrete Structures Using Rapid Hardening Hydraulic CSA Cement

This session reviews basic calcium sulfoaluminate (CSA) cement technology and how it differs from standard cement materials. Performance advantages of Rapid Hardening Hydraulic Cement Materials (ASTM C1600) based on CSA compounds are reviewed, as well as project efficiencies that can be achieved when using CSA cement based concrete and concrete repair materials. Common products readily available in the marketplace for commercial, industrial and infrastructure applications use are reviewed, as well as design, installation and specification considerations. An overview of CSA’s sustainability aspects and LEED credit potential is also provided.

RS0615 (1 LU)

Maximizing Efficiency & Long-Term Performance with Rapid Hardening Hydraulic Cement Materials for Concrete Rehabilitation & Repair Projects

This course discusses key challenges related to durability and compatibility of repair materials in concrete rehabilitation & repair projects. The performance advantages of Rapid Hardening Hydraulic Cement Materials (ASTM C1600) based on calcium sulfoaluminate (CSA) compounds are reviewed, along with the various materials available for concrete rehabilitation and repair in industrial, institutional, and commercial projects. Sustainability advantages are discussed, as well as design, installation and specification recommendations to ensure maximum long-term performance.

RS0515 (1 LU)

Understanding the Advantages of High-Performance, Fast Setting, Calcium Sulfoaluminate (CSA) Cement Materials for Tunneling & Mining Applications

This session reviews basic calcium sulfoaluminate (CSA) cement technology and how it differs from standard cement materials. Performance advantages of Rapid Hardening Hydraulic Cement Materials (ASTM C1600) based on CSA compounds are reviewed, as well as project efficiencies that can be achieved when using CSA cement based shotcrete, structural grouts, flowable fill and other common industry materials. Underground mining, construction, excavation and tunneling applications are reviewed, along with design, installation and specification considerations. An overview of CSA's sustainability aspects and LEED credit potential is also provided.

RSTM0615 (1 LU)

Maximizing the Advantages of Rapid Hardening, Calcium Sulfoaluminate (CSA) Cement Materials for Commercial & Recreational Shotcrete Applications

This session reviews basic calcium sulfoaluminate (CSA) cement technology and the performance advantages of Rapid Hardening Hydraulic Cement Materials (ASTM C1600). Project efficiencies that can be achieved when using CSA cement based shotcrete, structural grouts, flowable fill and other common industry materials in commercial and recreational applications are reviewed, along with installation and specification considerations. An overview of CSA's sustainability aspects and LEED credit potential is also provided.

RSSHTC0715 (1 LU)

POLISHED CONCRETE

Maximize Durability, Design Versatility & Installation Efficiency in Polished Concrete Designs

This course reviews the key aspects of designing, specifying and installing beautiful, resilient, polished concrete floors & polished overlays. Essential substrate preparation considerations and joint treatment are reviewed, as well as material options engineered to maximize durability and installation efficiency for new and rehabilitation/repair projects. You'll discover the design versatility polished concrete finishes offer, as well as important specification recommendations and best practices to ensure successful installations and long-term performance.

PCTRU0415 (1 LU)

CALCIUM SULFOALUMINATE (CSA) CEMENT TECHNOLOGY

Designing for Maximum Durability, Service-Life and Minimal Maintenance in New Concrete Structures and Concrete Repair & Renovation Projects with CSA (Calcium Sulfoaluminate) Cement

This course discusses key durability, longevity and maintenance challenges faced in concrete structures and concrete repair & renovation projects and reviews the science, technology and performance advantages calcium sulfoaluminate (CSA) cement offers in today's built environment. Common materials and practical applications of use in infrastructure, industrial, institutional, and commercial market segments are reviewed. Participants will understand how this high-performance cement technology achieves durable, low maintenance, long-life concrete solutions, and maximizes design versatility. Industry standards and best practices are reviewed, as well as specification recommendations to ensure successful installations and long-term performance.

CSAT0415 (1 LU)

Using Advanced Concrete & Concrete Repair Solutions in Commercial Project Designs

This course provides an overview of concrete and concrete repair solutions for commercial projects engineered with calcium sulfoaluminate (CSA) cement technology. An overview of key performance advantages in commercial project design is provided, with a focus on durability, installation efficiencies, reduced operations and maintenance costs, and design versatility. Common products used in commercial, hospitality, recreational, and retail projects will be reviewed, as well as an overview of the sustainability advantages of CSA cement. Participants will gain an understanding of how CSA cement contributes to long-term durability, extended asset life, and reduced life-cycle costs.

CSACOMM0515 (1 LU)

Using High-Performance Concrete & Concrete Repair Materials for Civil & Military Aviation Projects

This course reviews common challenges related to concrete and concrete repair within the aviation industry. An overview of calcium sulfoaluminate (CSA) cement technology is provided, along with detailed discussion regarding the key performance advantages of CSA cement based materials. Long-term durability, extended service life, installation efficiencies, reduced downtime, and reduced operations and maintenance costs are discussed. Common CSA-cement based products used within the industry are reviewed, as well as the sustainability advantages of CSA cement technology.

CSAAV0615 (1 LU)