



## CEU Course Offering

### Life Cycle Assessment: Viewed Through the Metamorphosis of Rubber (Roppe)

AIA 1 LU HSW

IDCEC

GBCI

This CEU focuses on the Life Cycle Assessment process and how the data captured is translated to an Environmental Product Declaration. The session will take the view of rubber flooring and will highlight how this category is in the forefront of sustainable building solutions. The learning module will help specifiers understand the role that Life Cycle Assessments play in making informed and responsible material sourcing decisions in the global fight against climate change.

### Gauged Porcelain Tile Systems (Mapei)

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In this session participants will learn about training programs that are available for help and education, for workers in the tile industry. In addition, participants will learn how to use the proper gauged porcelain tools, troweling, lippage control and dry installation methods. They will gain an understanding of the importance of having qualified installers that have gone through a certified training program.

### Healthcare - Floor Finished By Design (Mapei)

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IDCEC

This presentation will explore: 1) A healthcare facility is a complicated structure with many different types of flooring and adhesive needs. 2) The healthcare environment can apply pressure, point load and weight causing failure and repairs just because the wrong adhesive was selected. 3) The attributes of chemically resistant and sanitary are prized, and achievable, in a healthcare floor finish. 4) Healthcare facilities can be demanding and difficult to specify adhesives and flooring for. Yet they do not have to be that difficult, thanks to proper education and the right consultants.

### LHT Mortar and ANSI Mortar Designations (Mapei)

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This session will provide a Manufacturer perspective on tile industry standards development and the new mortar classifications. We will discuss ISO designations and the new ANSI mortar designations for; non sag (T), fast set (F), extended open time (E) and the proposed new large and heavy tile mortar (H) and how can it benefit the design professional and the tile contractor in the field? What was wrong with Medium Bed? Where did the Large and Heavy Tile mortar come from?

### Waterproofing: Key to Avoiding Costly Failures (Mapei)

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A discussion about the various types, methods and situations where waterproofing will protect and enhance tile and flooring installations. Also, a look at the various failures that can occur when waterproofing or moisture control is neglected or incorrectly installed in residential and commercial tile projects, including interior/exterior floors and walls, swimming pools, balconies, plaza decks, facades and baths.

- Understand why many failures occur.
- Learn how waterproofing and moisture mitigation requirements vary.
- Discover solutions for common applications.



### **Exterior Tile Installations (Mapei)**

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IDCEC

This session will discuss industry standards and guidelines regarding exterior tile installations. Participants will be shown how to plan for a successful installation. They will learn how to specify industry standards that are relevant to exterior installations. Participants will also have a good understanding on how to select proper materials for the job while taking environmental conditions into consideration.

### **Self-Leveling Underlayments (Mapei)**

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An in-depth introduction to the various methods of surface preparation required for installing self-leveling underlayment materials for concrete; the various industry standards of testing for moisture vapor emission rate (MVER). The presentation also will include an understanding the various types of self-leveling underlayments and potential problems for self-leveling applications and how to avoid them.

### **Hospitality Tile Installation (Mapei)**

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IDCEC

This presentation is primarily based on the proper installation of tile in Hospitality projects. The Learning Objectives are:

- 1) Consider the different functions in a hotel and how the finish demands vary.
- 2) What are the important installation considerations of the different environments?
- 3) What TCNA installation methods make sense for the different areas of use and how do you specify them?
- 4) How can Environmental Exposure Classifications benefit your hospitality finish specifications?

### **Grouting for Success (Mapei)**

1 LU HSW  
IDCEC

An explanation of the differences in grouts, and how industry standards apply to them. Participants will also be taught the difference between Portland cements, HCT technology and epoxies, and why they are needed for various types of ceramic tile and stone installations.

### **TCNA and ANSI: Specifying Successful Tile and Stone Systems By The Book (Mapei)**

AIA 1 LU HSW

A review of Standards and Resources for the tile industry (TCNA - Tile Council of North America and ANSI - American National Standards Institute) with special focus on understanding coordination of the documents; tile setting materials and application methods; learning how the Standards are changed and frequency; why these changes can benefit your project specification and using TCNA and ANSI to improve the quality of your project specifications.

### **Real Wood Flooring Enhances Sound Suppression in Multi-Family Environment (Kahrs)**

AIA 1 LU

This session will provide a better understanding of the following: The characteristics of engineered wood flooring; The science of sound in multi-family environments; Engineered wood flooring and sound transmission; Advantages of engineered wood flooring in multi-family installations; The reasons to list 100% real wood flooring in the project specifications; and the sustainability features of engineered solid wood flooring.



## **Specifying Flooring for Slip Resistance, Durability, and Sustainability (Protect All)**

AIA 1 LU HSW

In the U.S., there are more than 8.7 million people injured from slip, trip and fall incidents every year. As architects and designers, it's helpful to explore where and how slip & fall risks could occur in building projects. The session will help to identify dangers and the role of flooring in causing or preventing these hazards. You'll learn how slip-resistant flooring is measured, tested, and certified and where it's needed for health and safety.

## **Learn More About Hardwood Flooring (Mirage)**

AIA 1 LU HSW

This program will review the history of wood as a floor covering and emphasize on manufacturing standards of different technologies and format of wood flooring. Also, in depth training on finishes, widths, and physical characteristics will be given to help professionals choose and specify the correct material for each application

## **Lessons in Sustainability: A Case Study (Kahrs)**

AIA 1 LU HSW

Hammarby Sjöstad is a district in Stockholm, Sweden adjacent to the downtown, which is a brownfield site that is being developed as a sustainable neighborhood. Previously an industrial waterfront, planning for the redevelopment of the site began in 1996. The 2004 Olympic bid was incorporated into the site's redevelopment, however after Sweden did not receive the bid, the city shifted its development focus to building a sustainable community that is twice as efficient as a typical one. This CEU will discuss how the planners of Hammarby Sjöstad established sustainability goals and achieved results.

## **Vinyl Floor Installation (Mapei)**

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An explanation of how to specify the proper subfloor preparation that is required for solid vinyl sheet flooring.

## **Self-Adhered, Rubberized-Asphalt Waterproofing (Mapei)**

AIA 1 LU HSW

An in depth explanation of below-grade waterproofing and, in particular, self- adhered rubberized-asphalt waterproofing. Participants will learn about the various substrates encountered, jobsite & substrate preparation, self-adhered rubberized asphalt waterproofing membrane installation and installation details.

## **Introduction to Paint & Coatings (Mapei)**

AIA 1 LU

At the end of this program participants will be able to identify basic paint components and have an understanding of their impact on quality and function; differentiate the performance and aesthetic advantages of various coating finishes; understand the functional differences in a coating as a result of changes in chemistry; identify some of the latest innovations and technological advances in the coatings industry and their impact on environmental sustainability.

## **How Flat is Flat (Mapei)**

AIA 1 LU

This presentation will examine trends in tile and construction practices that impact substrate flatness, review flatness requirements found in industry documents, look at methods for obtaining flatness requirements, understand how self levelers work and learn the basics of self leveler application.



### **Tile & Stone Installation Systems (Mapei)**

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This session will give participants an understanding of the differences in ASTM C881 specification requirements, the use of epoxy overlay to rehabilitate structurally sound bridge decks in place of demolishing and rebuilding, provide a skid resistant surface to worn concrete decks to provide safety and lastly will incorporate material requirement as well as industry requirements for a successful project

### **Movement Joints in tile & Stone Installation (Mapei)**

AIA 1 LU HSW

This course will help participants in identifying and specifying proper treatment of movement joints in tile and stone installations.

### **Introduction to Moisture and Floor Preparation Management (Mapei)**

AIA 1 LU

An in-depth understanding of moisture issues in concrete slabs and the deleterious effect of a high moisture vapor emission rate (MVER) on flooring finishes. The presentation will address "sick building syndrome" caused by excessive concrete moisture vapor emissions; the various industry-approved methods for testing of MVER and for generating accurate data; conditions that generate excessive moisture in slabs and how to resolve them; how MVER barrier technology works, and how and when to specify it.

### **Crack & Sound Membranes (Mapei)**

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An in-depth introduction to the approved industry standards for Crack Isolation and Sound Control products, how to choose the membrane most appropriate for application and how to avoid common installation mistakes and failures.

### **Horizontal Concrete Repair (Mapei)**

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Participant will be able to understand the basics of concrete repair to horizontal concrete surfaces. Identify the basic materials and methods used to patch, overlay and resurface horizontal concrete. Understand the effects the environment and installation practices have on the quality & performance of concrete.

### **Next Generation Solid Surface (Lotte Staron)**

AIA 1 LU HSW

Compare the characteristic, durability, and life cycles of the current principal surface material used for commercial installations. Summarize the manufacturing, fabrication, and thermoforming process of 100% Acrylic Solid Surface. State the factors relating to the design aesthetics, performance advantages and green features that are driving the upward demand for solid surface solution for commercial installations, and discuss the relationship of 100% Acrylic Solid Surface to the e LEED green building certification program, Scientific Certification Systems (SCS) and GREENGUARD, as well as the applications and the variety of uses of solid surface in interior commercial markets.

### **Multi-Purpose Thin-Set Mortar Myth (Mapei)**

1 LU HSW

Credit

An explanation of the differences in thin-set mortars, and how they apply to ANSI A118.1 and ANSI A118.4. Participants will also be taught the difference between acrylics and why they are needed for various types of ceramic tile and stone installations.



### **Concrete Restoration Basics (Mapei)**

1 LU HSW

Credit

An explanation of concrete and the thought process of diagnosing, repairing, protecting and enhancing concrete structures. The program will address the basic components of concrete, how varying components can drastically affect the finished products, and the effects of the environment and installation practices on the quality and longevity of concrete.

### **General Surface Preparation (Mapei)**

1 LU

An explanation of industry standards and guidelines regarding substrate preparation for installation of concrete-based underlayment's and toppings. These may be finished floor systems (toppings) or be part of a system prior to subsequent installations of ceramic, resilient, VCT or other finished floor installations. Participants will be exposed to the correct process of inspecting a substrate to determine required preparation (repairs), moisture vapor emission analysis and testing methods, and methods of mechanical preparation prior to the installation of an underlayment or topping.

### **Color (Roppe)**

1 LU

1. Gain insight in the history of color and groups that manage color choices.
2. Understand the benefits and concerns with color, both psychological and physiological. [health]
3. Explore the connections between color, nature, biophilic design, and wellness [welfare]
4. Discuss wayfinding and other uses of color to enhance safety. [safety]

### **Can't Let that Slide – Designing with COF in Mind (Anatolia Tile + Stone)**

AIA 1 LU HSW

IDCEC Approved course for self-reporting

### **Navigating the World of Tile (Interceramic)**

AIA 1 LU HSW

This one hour course will give participants a better understanding of tile by addressing tile's history, the differences between the various types of tile, tile terminology, the manufacturing processes, the installation process, as well as benefits of making your tile choice.

Learning Objectives Include: History of Tile, Differences between the various types of tile, Tile Terminology, Manufacturing Processes, Installation Basics, Benefits of Making Tile Your Choice.

### **A User's Guide to the TCNA Handbook & More (Interceramic)**

AIA 1 LU HSW

This one hour course will familiarize the listeners with the TCNA Handbook and how to use it. The new coefficient of friction standards, effects of lighting on tile installations, expansion and movement joints and Green Squared are also discussed.

Learning Objectives include: Learning to navigate the TCNA Handbook, Learning how lighting affects wall tile installations, Becoming familiar with revised expansion joint guidelines, Understanding differences between DCOF and SCOF, Learning how tile contributes to healthier buildings, and Understanding the environmental product declarations.



### **Stone Care, What You Should Know (Interceramic)**

AIA 1 LU HSW

IDCEC (ASID, IDC, IDEC, and IIDA)

NKBA

This one hour course will give design professionals a general understanding of natural stone and the best practices for care and maintenance. Find out what to expect from a stone sealer in both interior and exterior applications and discover the truth about when to seal and when not to seal. Discuss the chemical make-up of different types of cleaners and how they can affect the longevity of your stone installation.

Learning objectives include: Gaining a basic understanding of natural stone and how their chemical composition affects their performance, Identifying common problems with porous materials, Analyzing different types of natural stone sealers and cleaning products and what to expect from them, Determining the proper care & maintenance products to use for: flooring, countertop, exterior cladding, or shower applications.

### **Basics of Travertine Selection, Fabrication, Installation, & Maintenance (Interceramic)**

AIA 1 LU HSW

IDCEC (ASID, IDC, IDEC, and IIDA)

NKBA

This one-hour class is designed for design professionals to gain a full understanding of travertine as a building material. Learn more about how to select this natural stone for a variety of interior and exterior applications. Gain an understanding of how travertine is fabricated and its unique application opportunities to enhance your design plans.

Obtain information about setting the proper consumer expectation in regards to installation and maintenance.

Learning objectives include: Learning about the travertine selection process and how to identify quality material, Obtaining information on travertine uses and limitations in both interior and exterior settings, Gaining an understanding about how travertine is fabricated and installed, and Learning about how to maintain and care for travertine after it has been installed.

### **Why Choose Natural Stone (Interceramic)**

AIA 1 LU HSW

IDCEC (ASID, IDC, IDEC, and IIDA)

NKBA

**Why Choose Natural Stone?** Description With so many building materials on the market today, this course will remind you why architects and designers keep choosing natural stone for their projects. Throughout history we've seen natural stone used in iconic structures symbolizing strength and permanence. New materials strive to mimic its beauty, but genuine natural materials connect us with our planet and its future in a unique and undeniable way. Its inherent durability allows stone to perform impeccably in commercial and residential applications, interior or exterior. New technologies are also keeping stone a front runner with innovative interior design trends by introducing new textures and patterns.

Learning Objectives include: Reviewing historical uses of natural stone that have stood the test of time, Examining attributes of natural stone that allow it to outperform other building materials on the market, Finding out how the sustainability of genuine natural stone connects us with our planet and its future, Learning how the latest design trends are satisfied with natural stone.



## **Natural Stone 101 - Everything you NEED to know about designing with the oldest building material (Interceramic)**

AIA 1 LU HSW

IDCEC

NKBA

This one-hour class is designed for construction industry professionals desiring to gain a full understanding of natural stone as a building material. Learn more about the various natural stones (limestone, travertine, onyx, marble, serpentine, sandstone, slate, quartzite, and granite). Obtain information about common quarrying techniques, fabrication, and finishing methods. With this understanding, you'll enhance your ability to select the right stone, fabrication technique, and finish for your project.

Learning Objectives Include: Obtaining a better understanding about how the mineral composition and formation of stone affect its performance as a building material, Learning about the science of each species of stone, examples of how it is quarried, unique characteristics, and common applications, and Gaining knowledge about stone fabrication finishing methods.

## **Natural Stone Tile: An Overview**

AIA 1.0 LU HSW

IDCEC (ASID, IDC, IDEC, and IIDA)

NKBA

This one hour course will familiarize design professionals with the resources available for installation methods and specifying standards for natural stone tile. We will review the characteristics of natural stone in order to understand how they might affect your project. See examples of common stone tile failures and discuss the best practices to ensure a successful installation.

Learning Objectives Include: Understanding the basic stone types and methods of formation, Understanding how the intricacies of Stone Tile installation can impact your project, Learning the key differences between the installation of Stone Tile and Ceramic/Porcelain tile, and Gaining an understanding of the key aspects of Stone Tile Specification as introduced in the 2011-12 TCNA Handbook, ANSI A 108/A118, and the MIA Dimension Stone Design Manual 7.2

## **Specifying: The Art of Specifying Natural Stone (Interceramic)**

AIA 1 LU HSW

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NKBA

This one hour session is designed to give architects and designers an overview of how to specify natural stone. There are many factors to consider to ensure you are choosing the proper material for your project. What do you need to know about its species, color variations, and finish possibilities? Is the quarry able to produce the sizes and quantities you need? And finally, what factors affect the price of the stone you specify? Get the resources you need to help ensure the stone you choose meets the standards and design intent set for your application.

Learning objectives include: Discussing the responsibilities and liabilities of each pillar in the typical construction project, Reviewing resources to find more information about natural stone standards, Learning how to plan for the longevity of an installation by specifying appropriate materials, Evaluating factors specific to the price of different materials, finishes and methods.



### **Sustainable Floor Coverings: The Case for Ceramic Tile (Interceramic)**

AIA 1 LU HSW

This one hour program is designed to show how ceramic tile systems compare with other floor coverings regarding sustainability and environmental impact.

Attendees will learn how ceramic tile installations conserve energy and resources and reduce the carbon footprint and how ceramic tile installations reduce product-cycle environmental impacts and can help optimize occupant health.

Learning Objectives include: Understanding the life cycle cost comparisons

between tile and other floor finishes, Learning how ceramic tile systems compare with other floor coverings regarding sustainability and environmental impact, Understanding the VOC content of ceramic tile and installation materials,

Learning about the various regulatory agencies that govern sustainable tile installation.

### **Green Design: Natural Stone and Green Design (Interceramic)**

AIA 1 LU HSW

IDCEC (ASID, IDC, IDEC, and IIDA)

GBCI

NKBA

This one hour presentation is intended to explain how natural stone fits into the Green movement. The stone industry continues to reduce environmental impacts through technology advancements and responsible manufacturing and shipping processes. We will discuss historical uses of natural stone that have stood the test of time. You will see examples of how key characteristics of stone such as its life cycle and carbon footprint satisfy elements of green building standards.

### **Understanding Green Squared Certification (Interceramic)**

IDCEC

In this course, participants will be given an understanding of the new multi attribute certification known as Green Squared. Learning objectives include: Learning the definition of product sustainability as it relates to the ceramic tile industry and Understanding the relevance of Green Squared to the green building community that supports rating systems, specifications, and related industry programs. Participants will be given a means to measure sustainability using the triple bottom line.

Receiving Credit for non-IDCEC Approved Courses

Source: <http://www.iida.org/content.cfm/nicaform>

Courses approved by AIA/CES or USG/GBCI

Self-report to IDCEC under Report Non-IDCEC Course or Activity Attendance.

Enter IIDA pre-approval code "IIDA-1617."

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