



Continuing Education Courses

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— THE NATIONAL —
TERRAZZO
— & MOSAIC ASSOCIATION —



Stunning of Aggregate - AGGR 1000

Objective: How does aggregate stunning manifest, what is the cause and how to avoid this problem will be discussed in a classroom setting. Also, what can be done to fix a problem should it occur will be discussed.

Who Should Attend: Field Supervisors, Estimators, Owners and Mechanics

Length: 1-hour classroom curriculum

Fine Aggregate Terrazzo Training - AGGR 1001

Objective: This class will discuss the issues associates with terrazzo using aggregates smaller than #1's. Difficulties such as increased number of pinholes, consistency and toweling will be discussed. Methods to overcome each of these will be offered.

Who Should Attend: Mechanics, Project Managers and Supervisors: All attendees should be prepared to discuss using fine aggregates and problems associated with this system.

Length: 1-hour classroom curriculum

Large Aggregate Terrazzo Training - AGGR 1002

Objective: Palladiana and Venetian Terrazzo will be placed and methods will be discussed in this hands-on seminar. In a classroom, the attendees will discuss the methods and a working session will allow for the placement of materials. Also, mosaics used as divider stripes and decorative shapes will be placed. All attendees should be prepared to discuss experiences with these specialty aggregates and to actually place and finish a large aggregate terrazzo.

Who Should Attend: Specifiers & Project Managers

Length: 2-1/2 days classroom and hands-on curriculum

Non-Standard Size Aggregate Terrazzo - AGGR 1003

Objective: Palladiana and Venetian Terrazzo will be placed and methods will be discussed in this hands-on seminar. Fine aggregate using small aggregate sizes will also be discussed and placed. In a classroom, attendees will discuss the methods and a working session will allow for the placement of materials. Also, mosaics used as divider stripes and decorative shapes will be placed.

Who Should Attend: Field Supervisors, Estimators, Owners and Mechanics

Length: 2-1/2 days classroom and hands-on curriculum

Mix Design Training - AGGR 1004

Objective: The mix design of terrazzo as it applies to the percentage of glass and the sizes, the amount of smaller aggregate that can be acceptable and the resin to aggregate ratio will be discussed in a classroom setting.

Who Should Attend: Field Supervisors, Estimators and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum



Marble Aggregate - AGGR 1005

Objective: To learn the properties of marble aggregate and how they are tested. Properties such as hardness, structure and abrasion resistance will be discussed.

Who Should Attend: Specifiers & Project Managers. All attendees should be prepared to discuss various aggregates and how they are used in a terrazzo floor.

Length: 1-hour classroom curriculum

Coefficient of Friction - COEF 1000

Objective: The training will consist of a discussion in the latest test methods to determine slip resistance. ASTM and ANSI procedures will be debated as well as the NTMA position of such standards.

Who Should Attend: Project Managers, Owners and Field Supervisors. All attendees should be prepared to participate in classroom discussions

Length: 1-hour classroom curriculum

Diamond Technology - DIAM 1000 (classroom) or DIAM 1001 (hands-on)

Objective: The newer methods of grinding terrazzo using diamonds will be discussed in a classroom. How to match the diamond to the type of terrazzo and the aggregate used, the removal of grout using diamonds as well as taking terrazzo to a higher polish using diamonds. A demonstration will take place using grinding equipment with diamonds.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum and 4-hours classroom and hands-on curriculum

Grinding Terrazzo Aggregate - GRIN 1000 (hands-on)

Objective: The training class will focus on the grinding of terrazzo aggregates. New techniques will be demonstrated to promote the most effective methods possible. Both classroom discussion and hands-on training will be conducted.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to participate in the demonstration.

Length: 1 day classroom and hands-on curriculum

Grouting Training Class - GROU 1000

Objective: The grouting class will consist of a classroom discussion on the various methods used to grout terrazzo floors. Also, included will be a brief discussion on the techniques used to remove grout.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum

Grouting/Grinding Terrazzo - GROU 1001 (hands-on)

Objective: The terrazzo training class will consist of both classroom and hands-on training. Learn the methods of grouting and the new techniques of removing the grout. A hands-on demonstration will be held for both the grouting process and the removal.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to apply material in a large sample demonstration. Attendees should bring their own hand tools.

Length: 2 days classroom and hands-on curriculum

Joint Fillers - JOFI 1000

Objective: The objective of this class is to learn the various types of chemistries of the joint fillers available and the properties of each. All attendees should be prepared to discuss which filler to use in various situations when filling a joint in the terrazzo.

Who Should Attend: Specifiers and Field Supervisors

Length: 1-hour classroom curriculum

New SDS Training - MISC 1000

Objective: Material Safety Data Sheets have changed. This classroom discussion will review the new formats. Regulations require employees to be trained on the new regulations.

Who Should Attend: All owners and employees

Length: 1-hour classroom curriculum

Notice Letter Training - MISC 1001

Objective: The NTMA notice letters and how they should be used will be discussed in a classroom setting. Topics will include moisture related issues, flatness, cracking, warranties and other topics covered in the NTMA letters.

Who Should Attend: Field Supervisors and Owners

Length: 1-hour classroom curriculum

Shop Drawing Training - MISC 1002

Objective: The training class on shop drawings will consist of a classroom presentation on the fundamentals of shop drawings. Learn the basics of what the general contractor and architects wants in shop drawings. How to submit a drawing that details expansion strips, isolation strips, termination strips and strips use for the pattern will be discussed.

Who Should Attend: Estimators and Project Managers. All attendees will be expected in active discussion on how to prepare and submit shop drawings. Classroom materials will be provided.

Length: 4-hour classroom curriculum



Good Jobs, Gone Bad - MISC 1003

Objective: Issues arising on the job site or even afterwards will be evaluated as to what may happen. Also, the means of correcting these problems will be covered.

Who Should Attend: Field Supervisors, Mechanics, Quality Control Supervisors. All attendees should be prepared to discuss job issues and either how to avoid or how to fix.

Length: 2-hour classroom curriculum

Moisture Testing - MOIS 1000 (classroom) or MOIS 1001 (hands-on)

Objective: The methods of moisture including the plastic sheet method, the electronic meter, the humidity probe test and the calcium chloride test will be discussed in detail in a classroom setting. Sample instruments will be available for demonstration.

Who Should Attend: The session is designed for field supervisors, project managers and owners who are responsible for specifying or installing moisture control systems.

Length: 1-hour classroom curriculum or 4-hours classroom and hands-on curriculum

Radiant Heat Terrazzo - RADH 1000

Objective: The aim of this class is to discuss the unique properties associated with using a heating/cooling system under a terrazzo floor. Such properties as thermal expansion, heat distortion temperature and coefficient of thermal expansion will be discussed. The use of strips, joints and membrane will be an integral part of the discussion.

Who Should Attend: Specifiers, Mechanical and Field Supervisors. All attendees should be prepared to discuss the various properties of epoxy as they relate to heating and cooling in this classroom setting.

Length: 1-hour classroom curriculum

Rustic Terrazzo - RUST 1000 (hands-on)

Objective: Learn the types of rustic, surface preparation required, under-bed and topping mix designs, methods of exposing the aggregate, strip placement, sealing and maintenance. Placing the under-bed, strips and topping will be part of hands-on sessions.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to apply material in a large sample demonstration. Attendees should bring their own hand tools.

Length: 2-1/2 days classroom and hands-on curriculum

Sand Cushion Terrazzo - SAND 1000 (hands-on)

Objective: The sand cushion terrazzo training class will consist of both classroom and hands-on training. Learn the basics of sand cushion, under-bed and topping mix designs, strip placement, sealing and maintenance. Placing the under-bed, strips and topping will be part of hands-on sessions.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to apply material in a large sample demonstration. Attendees should bring their own hand tools.

Length: 2-1/2 days classroom and hands-on curriculum



Installing Sand Cushion Terrazzo - SAND 1001 (minimal hands-on)

Objective: The basic principles of sand cushion terrazzo including the slip sheet, under-bed andopping will be discussed. Mix designs, strip placement and do's and don'ts are reviewed in detail.

Who Should Attend: Project managers, lead mechanics and specifiers will benefit from the discussion of sand cushion. They should be prepared to discuss in detail all facets of sand cushion including where to use and how to install.

Length: 1 day classroom and minimal hands-on curriculum

Sealing the Floor - SEAL 1000 (classroom) or SEAL 1001 (hands-on)

Objective: The training class on sealing terrazzo floors will consist of both classroom and hands on training. Types of sealers will be discussed and sealers will be applied in a hands-on session.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to apply material in a large sample demonstration. Attendees should bring their own hand tools.

Length: 1-hour classroom curriculum or 1 day classroom and hands-on curriculum.

Covering and Protecting Terrazzo - SEAL 1002

Objective: Methods to protect terrazzo will be held in a classroom setting. Topics will include materials to protect terrazzo, and who should protect and typical language in a terrazzo specification.

Who Should Attend: Field Supervisors, Owners and Estimators. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum

Finish the Terrazzo - SEAL 1003

Objective: The class will discuss the types of sealers used for terrazzo as well as the benefits and deficiencies of each.

Who Should Attend: Owners, Maintenance Personnel and Project Managers.

Length: 1-hour classroom curriculum

Special Finishes Training - SEAL 1004

Objective: Special finish training classes will consist of a classroom discussion on the benefits of special processes to finish terrazzo as well as applying these finishes to a terrazzo floor.

Who Should Attend: Field Supervisors, Estimators, Owners and Mechanics. All attendees should be prepared to participate in classroom discussions and to apply material.

Length: 1-day classroom curriculum



Care of Sealed Terrazzo - SEAL 1005

Objective: The training will consist of discussion on the loss of gloss, scratching, dist. retention and other phenomenon that cause a sealed floor to lose aesthetics. Remedies will be offered to fix these problems and suggestions to avoid before they occur.

Who Should Attend: Project managers and Field Supervisors. All attendees should be prepared to participate in classroom discussions

Length: 1-hour classroom curriculum

Why Choose this Sealer - SEAL 1006

Objective: The training class on sealing terrazzo floors will consist of both classroom and hands on training. Types of sealers will be discussed and sealers will be applied in a hands-on session.

Who Should Attend: Personnell involved with the close out of the job, maintenance personnel and project managers should attend and be prepared to discuss facets of sealers as they relate to cleanliness, aesthetics and choice of the sealer.

Length: 1-hour classroom curriculum

Silica Training (Part I) - SILI 1001

Objective: Basic OSHA rules and regulations as well as health effects of exposure to silica will be reviewed. The class is a start to compliance with OSHA mandates for conforming to health and safety, medical record keeping, communication and all six requirements for Competent Person training. A passing grade on a written exam is mandatory to receive Competent Person training card.

Who Should Attend: Anyone exposed to silica dust or anyone involved with record keeping or involved with the enforcing silica rules.

Length: The class is approximately 2-hours. A written test and review will immediately follow.

Silica Training (Part II) - SILI 1002

Objective: This class is a review of the OSHA regulations and how to comply. Health and safety procedures will be reviewed. This is a refresher course for those who have attended Silica Training Part 1 and have passed the test.

Who Should Attend: Anyone who has exposure to silica or anyone involved with enforcement of the regulations. However, this is a refresher course. Competent person cards will be given only to those who have passed the Part 1.

Length: 1-hour classroom curriculum

Methods of Filling & Flattening a Slab - SLAB 1000

Objective: Methods of flattening a slab for the installation of epoxy terrazzo will be discussed in a classroom setting. Acceptable materials for the process will be discussed.

Who Should Attend: Field Supervisors, Estimators and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum



Concrete Evaluation - SLAB 1001

Objective: The training will consist of a classroom discussion on the questions to ask about the substrate before applying terrazzo. Topics will include slab construction, aggregate mix, vapor barrier, concrete design and joint location.

Who Should Attend: Field Supervisors, Owners, Estimators and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 4-hours classroom curriculum

Surface Preparation - SLAB 1002

Objective: This class will focus on the preparation of concrete for the purpose of installing epoxy terrazzo. Also, a brief discussion on the preparation of a wood substrate.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to discuss their method of preparation and why it may or may not be effective.

Length: 1-hour classroom curriculum

Basics of Concrete - SLAB 1003

Objective: The training will consist of a classroom discussion on the properties of concrete. Properties such as tensile strength, compressive strength, adhesion, concrete mix design and moisture issues will be discussed as they relate to epoxy terrazzo.

Who Should Attend: Field Supervisors, Project Managers and Mechanics.

Length: 1-hour classroom curriculum

Installation of Divider Strips - STRI 1000

Objective: The divider strip training class will consist of classroom discussions on where to place divider strips and the best method of placing strips. What joints and cuts in the concrete must be honored and which ones should be honored will be discussed in detail.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 2-hours classroom curriculum

Divider Strips - Design & Layout - STRI 1001

Objective: Where to place divider strips will be discussed in a classroom session. Emphasis will be placed on working with the architect for the location of expansion strips.

Who Should Attend: Field Supervisors and Estimators. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum



Cast-in-Place Treads & Risers - STTR 1000 (hands-on)

Objective: The Cast-in-Place terrazzo training class will consist of both classroom and hands-on-training. Learn the basics of installing treads and risers in the field. Various stair configurations, mix designs and grinding techniques will be discussed. Actual placing of the treads and risers will be part of the session.

Who Should Attend: Field Supervisors and Mechanics. All attendees should be prepared to participate in classroom discussions and all attendees will be expected to apply material in a large sample demonstration. Attendees should bring their own hand tools.

Length: 2-1/2-days classroom and hands-on curriculum

Field Measuring and Templates for Precast Stairs - STTR 1001

Objective: The training is designed to define the best methods of measuring for precast terrazzo products. How to use templates and other devices will be covered. The terrazzo products will include base, treads and risers, column covers and other complicated precast terrazzo pieces.

Who Should Attend: Field Supervisors, Estimators and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 4-hours classroom curriculum

Terrazzo in Elevator Cabs - TEEC 1000

Objective: Methods of placing terrazzo in elevator cabs will be discussed. This is a classroom discussion outlining procedures to install terrazzo in an elevator cab.

Who Should Attend: Field Supervisors, Estimators and Mechanics. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum

Properties of Epoxy and Cement - TERR 1000

Objective: Discuss the basic properties of epoxy and cement terrazzo. The characteristics of epoxy and monolithic, bonded and sand cushion terrazzo are detailed.

Who Should Attend: Owners, Field Supervisors and Mechanics. All attendees should be prepared to discuss the pluses and minuses of each system in a classroom setting.

Length: 1-hour classroom curriculum

Comprehensive Terrazzo 101 - TERR 1001 (hands-on)

Objective: This class will take the attendee from concrete evaluation to sealing the terrazzo. Included in this class will be concrete evaluation, basic of concrete, preparation of concrete, application of the epoxy mix, strip placement, grouting and sealing.

Who Should Attend: Field Supervisors, Mechanics, Specifiers and any new to the field of epoxy terrazzo, epoxy mix, strip placement, grouting and sealing. All attendees will have the opportunity to discuss all facets of terrazzo installations in a classroom setting and will have the opportunity to apply set strips, apply epoxy terrazzo and to grout the pinholes.

Length: 2-1/2-days classroom and hands-on curriculum

Comprehensive Terrazzo 201 - TERR 1201 (hands-on)

Objective: This class will take the attendee from concrete evaluation to sealing the terrazzo. Included in this class will be concrete evaluation, basics of concrete, preparation of concrete, application of the epoxy mix, strip placement, grouting and sealing. There will be a strong emphasis placed on grinding of terrazzo.

Who Should Attend: Field Supervisors, Mechanics and Specifiers.

Length: 2-1/2-days classroom and hands-on curriculum

Terrazzo Designs - TERR 1002

Objective: This class will review the methods of placing logos and designs in a terrazzo floor. Placing strips on the concrete, premade logos, pecut patterns and water jet system are all discussed.

Who Should Attend: Project Managers, Field Supervisors and Mechanics. All attendees should be able to evaluate which method best fits the particular job.

Length: 1-hour classroom curriculum

Terrazzo Restoration - TERR 1003

Objective: Restoring terrazzo will focus on restoration of an existing terrazzo floor. Crack repair, patching and refinishing will be part of the emphasis. A number of examples of floors that have been restored will be shown to re-enforce the procedures and to show what can be done.

Who Should Attend: Field Supervisors, Estimators, Owners and Mechanics. All attendees should be prepared to discuss the best techniques to bring an existing floor back to life.

Length: 1-hour classroom curriculum

Why Terrazzo Yellows - TERR 1004

Objective: This classroom discussion will be based on the chemistry of epoxy terrazzo as it relates to yellowing due to ultraviolet light and the yellowing of epoxy due to humidity known as amine blush. All attendees should be prepared to discuss this phenomenon as it relates to the job site and the installation of epoxy terrazzo.

Who Should Attend: Field Supervisors, Owners and Mechanics.

Length: 1-hour classroom curriculum

Managing Expectations - TERR 1005

Objective: How to manage expectations from the owner or architect will be discussed in a classroom setting. How to prepare for the questions related to quality control issues or installation issues will be covered.

Who Should Attend: Field Supervisors and Owners. All attendees should be prepared to participate in classroom discussions.

Length: 1-hour classroom curriculum

“Why is my floor turning blue” - TERR 1006

Objective: The purpose is to learn the reason why epoxy might turn blue and how to avoid it.

Who Should Attend: Mechanics, Field Supervisors, Owners. All attendees should be able to discuss all materials and supplies used so that variables can be eliminated.

Length: 1-hour classroom curriculum

“Extreme” Terrazzo Installation (Part I) - TERR 2101

Objective: Detail several terrazzo installations of unusual characteristics. Terrazzo with radiant heating systems, raised access floors with terrazzo and terrazzo over acoustical membranes will be discussed.

Who Should Attend: Field Supervisors, Owners and Specifiers. All attendees should be prepared to discuss unusual terrazzo installations and to add unusual installation of their own.

Length: 1-hour classroom curriculum

“Extreme” Terrazzo Installation (Part II) - TERR 2102

Objective: This is Extreme Terrazzo Part II. Vertical terrazzo, free flowing terrazzo without strips, terrazzo stair repair, logos and large aggregate terrazzo will be discussed.

Who Should Attend: Specifiers Project Managers and Mechanics. All attendees should be prepared to discuss unusual terrazzo installations and to add unusual installation of their own.

Length: 1-hour classroom curriculum

“Extreme” Terrazzo Installation (Part III) - TERR 2103

Objective: This is Extreme Terrazzo Part III. Rustic terrazzo, large aggregate terrazzo, terrazzo with LCD lighting and terrazzo with terrazzo 3D printed objects will be discussed.

Who Should Attend: Specifiers, Project Managers and Mechanics. All attendees should be prepared to discuss unusual terrazzo installations and to add unusual installations of their own.

Length: 1-hour classroom curriculum

Vertical Terrazzo - VERT 1000 (classroom) or VERT 1001 (hands-on)

Objective: The objective is to learn the procedures for installation of vertical terrazzo including the application for precast and cast-in-place base both cove and straight and to learn about applying terrazzo on a vertical surface. Both classroom and hands-on sessions will be a part of the class. All attendees should be prepared to discuss and apply all types of vertical terrazzo.

Who Should Attend: Field Supervisors, Mechanics and Specifiers.

Length: 1-hour classroom curriculum or 2-1/2-days classroom and hands-on curriculum