

Accredited Continuing Education Program Guide



*Plazas and IRMA
Roofing*



*New Roof
Assemblies*



*Balconies and
Terraces*



Green Roofing



*Interior and Industrial
Applications*



*Existing Roof
Recovery*



*Gutterways and
Flashings*



*Fountains and
Water Features*



Metal Roofing

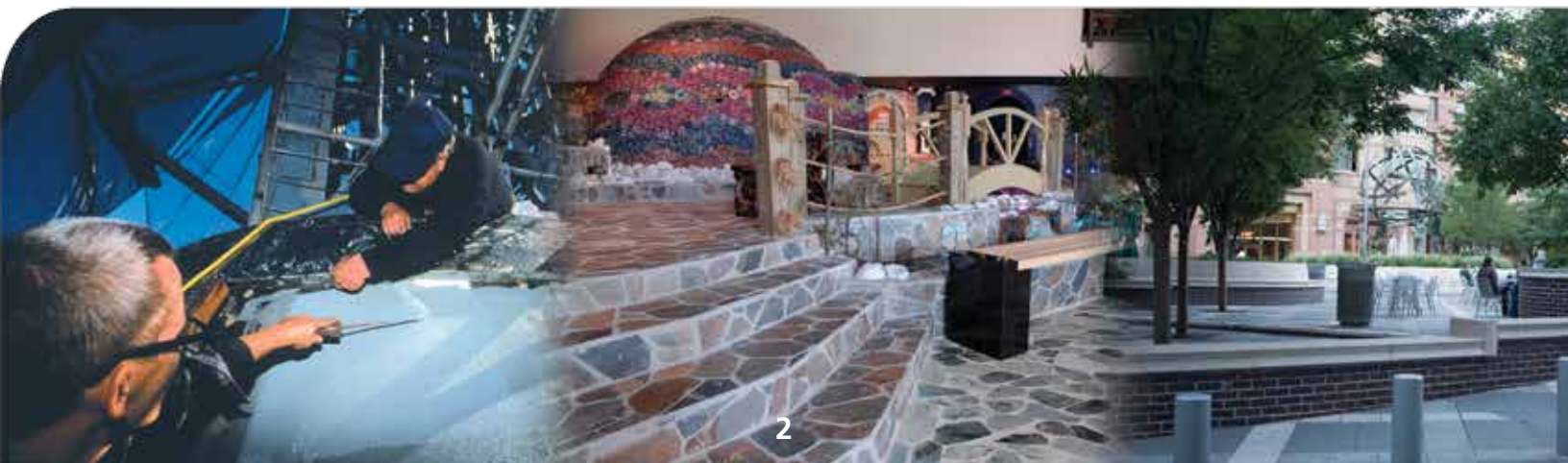
High-Performance, 'Built-to-Last' Roofing and Waterproofing Systems

With more than 50 years of proven experience, Kemper System is the world leader and innovator of the highest quality, cold liquid-applied, fully reinforced waterproofing and roofing membrane systems. From the scorching heat of Puerto Rico to the ice and freezing temperatures of Alaska, our products stand the test of time, even under the most adverse conditions.

We offer three core liquid resin membrane technologies – each with special advantages – that can address a range of challenges across the building envelope. These versatile fleece-reinforced membrane systems provide monolithic, edge-to-edge protection for long-term performance.

Common Advantages / Uncommon Performance

Unlike many other roofing and waterproofing systems, the cold, liquid-applied system eliminates seams and other areas where most leakage occurs. Our versatile systems are excellent for projects with multiple penetrations, such as stanchions and roof anchors, and for sealing around skylights and other architectural details. We also offer two advanced Traffic Coating technologies.



KSA – 1

Cold Liquid Applied Roofing & Waterproofing Systems

History of fully reinforced, cold-fluid applied, liquid resin waterproofing membranes. Technology - composite of resin and reinforcement. Understanding system components. Application process, performance benefits, range of applications. Project examples including detailing and various assemblies.

Course Title: Cold Liquid Applied Roofing & Waterproofing Systems

Credit Designations: AIA/CES 1.5 LU|HSW & 1.5 RCI CEH

- Learning Objective 1: Introduction and brief History of the fully reinforced cold-fluid applied liquid resin waterproofing membranes and the technology that created them.
- Learning Objective 2: Understanding System Components and Assemblies. Application Process including Technology Resin and Reinforcement. Review the Performance Benefits and Characteristics of Liquid-applied Systems
- Learning Objective 3: Review the Range of Applications including roofs, plaza decks, balconies, terraces, fountains, gutters, and interior applications. Includes a special brief introduction to sustainable roof designs including green roofing, blue roofing, and white roofing. Process - Substrate evaluation -Preparation -Priming -Waterproofing -Surfacing Options
- Learning Objective 4: Understanding System Components -Primers -Patching Mortars - Reinforcements -Resins / Additives -Sealants and Surfacing Reviewing details, assemblies, and case studies of projects.

KSA – 2

Green, Blue and White and Its Applicability to Sustainable Design

There are now three distinct types of sustainable roof solutions: green, blue and white. Designers need to understand the relative benefits of each approach to effectively select the appropriate system for the project. Understand the standards that are used as the basis for green roofs and their myriad benefits that can be reaped. Numerous case studied will be presented.

Course Title: Green, Blue and White and Its Applicability to Sustainable Design

Credit Designations: AIA/CES 1.5 LU|HSW & USGBC GBCI: 91000002 1.5 CE & 1.5 RCI CEH

- Learning Objective 1: Identify examples of green, blue and white roofing systems - explaining the environmental performance issues of each and discussing the criteria used when selecting each as an approach to sustainable roofing practices from a storm water management, cool roofing, and urban heat island point of view.
- Learning Objective 2: Compare vegetated roofs, landscaped garden roofs and green roofs - in the context of the FLL definitions comparing extensive, semi-intensive and intensive green roofs. Further discussing storm water capacity, system weight, maintenance requirements, and general recommendations.
- Learning Objective 3: Describe the benefits to building owners and the public including economic benefits related to heating and cooling, amenity space and aesthetics, sound insulation, air quality benefits, moderating Heat Island Effect, and Storm Water

Management in terms of minimizing Combined Sewer Overflow.

- Learning Objective 4: A review of Design Guidelines and Updated Standards for Green Roof Design including roof slope, design loads, wind design, and fire resistance. How to evaluate the growing media and to specify appropriate flora and fauna for a green roof.

KSA – 3

Technical Inspections for Liquid Resin Roofing & Waterproofing Membranes

With the mainstream usage of the Cold Fluid Applied, Liquid Resin Roofing & Waterproofing Membranes; it is necessary to obtain the technical knowledge used to provide QC inspections. Course will provide attendees of basic “what to look for” information, some science related to the information, and corrective course of actions that may be possible.

Course Title: Technical Inspections for Liquid Resin Roofing & Waterproofing Membranes

Credit Designations: AIA/CES 1.5 LU|HSW & 1.5 RCI CEH

- Learning Objective 1: Understand the recommended application procedures for these types of liquid resin systems. Including several different resin and reinforcement types typically seen in the US market.
- Learning Objective 2: Identify typical application deficiencies including substrate preparation, primer application, membrane application, & surfacing.
- Learning Objective 3: Develop solutions for typical problems encountered in the field and provide recommendations on how to address these problems promptly before they become large scale issues.
- Learning Objective 4: Show project specific case studies to support the common sense solutions for application deficiencies.

KSA – 4

Blue Roofs and Storm Water Management

The effects of Storm Water during Peak Flow periods in areas serviced by Combined Sewer Systems is a hot button issue all over the United States. Blue Roofs are a useful and cost effective tool for managing Storm Water during Peak Flow periods and can be used to contribute to minimizing Combined Sewer Over-flow.

Course Title: Blue Roofs and Storm Water Management

Credit Designations: AIA/CES 1.5 LU|HSW & USGBC GBCI: 920000037 1.5 CE & 1.5 RCI CEH

- Learning Objective 1: Understand the causes, look at the process, and identify some of the problems associated with the combined sewer over-flow phenomenon.
- Learning Objective 2: Look at some of the measures being taken to address this concern including vegetated roofs, vegetated swales, pervious paving, water retention tanks, and blue roofing.

- Learning Objective 3: Define Blue Roofing and discuss the current design issues in terms of limitations, requirements, best practices, and performance.
- Learning Objective 4: Review case studies of projects in place discussing how design issues were addressed and providing a frame of reference to how these projects are typically being handled.

KSA – 5

Dynamic Tour of Liquid Resin Roofing & Waterproofing Materials Manufacturing Facility

Guided Manufacturing Plant Tour of Kemper System America's West Seneca, NY Facility. Tour includes a review of plant safety criteria (5 mins); QC & R&D labs (30 mins) introduction into various equipment used for ASTM and product testing; Warehouse tour (5 mins) including discussion of building design for containing potential spills to protect surrounding wildlife area; Distribution center (5 mins) discussions including QC process for incoming raw materials and outgoing products; Manufacturing overview (15 mins) showing machinery and processes for creating various liquid resins, primer, topcoats, & coatings.

Course Title: Dynamic Tour of Liquid Resin Roofing & Waterproofing Materials Manufacturing Facility

Credit Designations: AIA/CES 1.0 LU|HSW & 1.0 RCI CEH

- Learning Objective 1: Attendees will be presented general safety information for touring an active chemical manufacturing plant. Including General Rules, Safety Information such as Prohibition & Warning Signs, Hazardous Information, What to do in case of Fire and Emergency, and Meeting Place Location.
- Learning Objective 2: Attendees will be introduced to the following Laboratory equipment used in various testing by KSA Scientists: Instron Tensile Tester (tensile strength, % elongation, peel testing); FTIR (comparative studies, determination of composition, qc of incoming samples); Brookfield Viscometer (dynamic viscosity, Rheocalc for determining pot life); Karl Fisher (water % determinations of liquid materials, volumetric KF); Elcometer (pull off adhesion testing); Density Ball (precision to 0.002 g/ml, calcs. Density); IR moisture analyzer (% of moisture powder materials); Oxygen Bomb (combustion of combustible products for halogen determinations); Freeze Point Tester (freeze point testing acc. to ASTM D1177); Flash point Tester (flash point testing); Ross Miles Foam Test (testing foam acc. to ASTM D1173); QUV Xenon Arc Accelerated Aging Chamber (ages materials acc. to ASTM G155); Questions?
- Learning Objective 3: Attendees will be introduced to plant design intended to protect the surrounding wildlife in the event of a chemical spill and will be provided an introduction into the QC program for incoming and outgoing products and raw materials.
- Learning Objective 4: Attendees will have a basic understanding of the manufacturing equipment and processes employed to create urethane and epoxy resins, coatings, and primers for waterproofing and roofing applications.

KSWS

Technical Conference and Workshop on Liquid-Applied Waterproofing and Roofing Solutions

Introduce the concept of cold-liquid reinforced systems. Describe their advantages and attributes, particularly with respect to sustainability and minimal environmental impact. Illustrate their wide range of roofing, waterproofing and surfacing applications. Step by Step application methods to increase efficiencies and productivity, where and when to use these products on your own, guidelines based upon 50 years of experience for various kinds of applications, do and don't tips, helpful hints to increase productivity, how to install from mobilization, site set-up, demo, preparation of all substrate types, primer guidelines, installation of various membranes and installation of various top coats. Overview of bidding procedures and guidelines to better help specifiers, contractors, owners, general construction managers estimate more accurately. Provide a hands-on demonstration using a 2 component urethane liquid resin with fabric reinforcement to show application of the membrane field, flashings, pipe penetrations and drains. Demonstrate surfacing application for use over membrane.

Course Title: Technical Conference and Workshop on Liquid-Applied Waterproofing and Roofing Solutions

Credit Designations: AIA/CES 3.0 LU|HSW & 3.0 RCI CEH

- Learning Objective 1: Practical - Learning about and understanding liquid resin waterproofing membranes in terms of history, project types, application process, assembly types, material components, performance attributes.
- Learning Objective 2: Practical - Study the Range of Applications - in depth review of applications including a study of assembly details and project case studies to assist in understanding how to perform complex projects and details. Questions and Answers.
- Learning Objective 3: Hands - On Step by Step demonstration of application methods to increase efficiencies and productivity. Demonstration uses a 2 component, solvent free, Low VOC, odorless resin system applied to a mock-up of membrane flashing, field application, drain detail and pipe penetration.
- Learning Objective 4: Hands - On Demonstration of how to install from mobilization, site set-up, demo, preparation for all substrates types, primer guidelines, mixing and installation of various membranes and installation of various top coats.

All of our forms are now available online for your convenience.

SEMINAR SIGN UP SHEET



SEMINAR REGISTRATION SHEET



SEMINAR EVALUATION SHEET



Excellence in Waterproofing, Roofing and Surfacing Technology



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