Troubleshooting the Building Envelope: Problem Solving and Problem Prevention

For Architects, Engineers, Specifiers, Contractors, Building Owners and Managers, and Building Code Officials

Earn 5 AIA Approved HSW Learning Units for Architects
AIA Learning Units May Qualify for PDH’s for Engineers Depending on State Licensing Board Requirements

Date and Location
Tuesday, September 11, 2007
8:30 AM to 3:15 PM
Flower Stem
213 Richard Arrington Jr. Blvd. S.
Birmingham, AL
205/870-8809

AIA Birmingham
107 S. 21st Street
Birmingham, AL 35233

Sponsored by:
AIA Birmingham
205/322-4386
Troubleshooting the Building Envelope: Problem Solving and Problem Prevention

September 11, 2007 – Birmingham

8:30 a.m. Registration

9:00 a.m. Opening Remarks

9:15 a.m. Troubleshooting Cracks in Concrete: Identification and Resolution by Dayton Superior

Does concrete crack?

How? Why? Where?

Basics

Causes

Concrete Mix Design, Environmental Conditions, Stress, Movement, Load, Corrosion, Chemical

Types

Movement, Load, Deterioration, Locations Horizontal, Vertical

Testing to Confirm Diagnosis Litmus Tests, Field Tests

Repair Strategy

Sealing

Methyl methacrylate, Urethane, Polyurea Structural Repair Products

Methods

Epoxy Gravity, Paste, Injection

10:30 a.m. Break

Meet speakers

10:45 a.m. Troubleshooting Sealant Applications in Wall Systems by May National

Analyzing sealant contribution to prevention of air and water infiltration Failure analysis Test Methods Evaluating Specifying Field and shop quality control Understanding rain screens and pressure equalization Proper sealant design detailing Coordination of building trades Using adhesives/sealants in wall and window systems Energy considerations Wall performance requirements Preventing catastrophic failures in high wind load and seismic regions Problem prevention in new construction Problems in renovation repair

11:45 a.m. Lunch

Troubleshooting EIFS Cladding by Dryvit Systems, Inc.

Exterior Insulation and Finish Systems (EIFS)

Barrier Type vs. Drainage Type

EIFS Architectural Features Insulation (R) Value Flexible, Monolithic, Lightweight, Durable

EIFS Cost Effectiveness Energy Savings, Reduced Structural Demands Competitive Cladding Choice

EIFS Curb Appeal Design Freedom Surface, Texture and Color Variety

EIFS Clad Envelope Renewal – Problem Solving Inspection / Observation, Cleaning Sealant Replacement, Damage Repair Architectural Coatings Over-Cladding – Specialty Finish Options EIFS Cladding – Problem Prevention It is all in the details


It is all in the details

12:00 p.m. Troubleshooting Masonry Construction by PROSOCO Incorporated

Why building owners like masonry Appearance and Performance Types of masonry trouble Appearance-related Performance-related

Stopping trouble before it starts New construction clean-down Water repellents Air barriers Maintenance cleaning

Dealing with trouble if it happens Fixing damage from improper cleaning Graffiti removal Fixing water-related problems

Reversing decades of trouble Restoration cleaning, Consolidation, Protection from acid rain

Why masonry is worth the trouble Appearance and Performance

12:45 p.m. Close

Registration

(Continental Breakfast and Lunch Included)

September 11, 2007

AIA Members: $ 75.00 $__________

AIA Associate Members: $ 50.00 $__________

Non-Members: $100.00 $__________

Name(s): __________________________________________

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Company: _________________________________________

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E-mail: _________________________________________

Profession: ________________________________________

(Please Print)

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Birmingham, AL 35233

Phone: 205/322-4386 Fax: 205/322-4347

E-mail: aiabirm@aiabham.org

Cancellation Policy: 100% refund for cancellation made 14 days or more before event. 50% refund for cancellation made less than 14 days before event. No refund for cancellation made 7 days or less before the event.

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