



AIA PROGRAM SUMMARIES

ABOVE-GRADE WALL AIR BARRIER SYSTEMS

PROGRAM NUMBER 007204

This PowerPoint presentation on air barriers from W. R. MEADOWS provides the most current information on building envelope above-grade moisture migration. Air leakage, into and out of a structure, contributes to increased building energy costs, and accounts for 70 – 90% of moisture movement through the building envelope. This moisture intrusion may cause several serious problems, such as metal component corrosion, mold, and poor indoor air quality. W. R. MEADOWS has created this presentation to inform the viewer of ways to combat building envelope air leakage and the problems it causes. In the presentation, several points are discussed, including a discussion on moisture sources and travel, their negative impact upon the building envelope, and how air barriers contribute to overall building sustainability. In general, this presentation provides information on the science of proper above-grade air leakage and moisture protection. This program is registered with the AIA/CES for continuing professional education, and is HSW-approved. The course earns one Learning Unit (LU). The course also earns one LU in Sustainable Design (SD).

CAUSES OF SURFACE DEFECTS ON HORIZONTAL CONCRETE SLABS; PREVENTATIVE SURFACE TREATMENTS & REMEDIATION

PROGRAM NUMBER CR304

The one (1) hour course will review the cause of surface defects in concrete horizontal slabs. The course will give the viewer the ability to recognize the different types and causes of surface defects in horizontal concrete slabs. Learn about surface treatments for preventative maintenance to avoid surface defects. And, if all else fails, learn about proper techniques and materials to repair surface defects in horizontal concrete slabs. This program is registered with the AIA/CES for continuing professional education. The course earns one learning unit (LU).

CEMENTITIOUS WATERPROOFING

PROGRAM NUMBER 0CW100

This course provides an overview of the composition of concrete and some of the inherent problems relating to concrete deterioration as a result of water penetration, as well as various cementitious waterproofing materials, including crystalline technology and polymer-modified flexible coatings, to prevent this water penetration. This program is registered with AIA/CES for continuing professional education. The course earns one learning unit (LU).

**CONCRETE RESTORATION
PROGRAM NUMBER CR303**

This PowerPoint presentation from W. R. MEADOWS provides the most current information on concrete restoration. Several areas are discussed in this presentation, including surface preparation and understanding and controlling cracks. Great detail is also given on shrinkage, aggregate extension and curing. In general, this presentation provides information on the science of proper concrete restoration and technique. This program is registered with the AIA/CES for continuing professional education, and is also HSW-approved. The course earns one AIA credit.

**CONSTRUCTION JOINT SEALANTS: A CRITICAL PART OF BUILDING ENVELOPE PERFORMANCE
PROGRAM NUMBER 7901**

This course provides an overview of joint sealants and their critical role in construction. Discussion points include joint design, critical success factors, material selection, and more. Course users will learn and understand why joint sealants are needed for accommodating movement, functioning as a part of an air barrier and vapor retarding system, and necessary for acoustic control. This program is registered with the AIA/CES for continuing professional education and is HSW-approved. The course earns one learning unit (LU).

**CONTROLLING AIR LEAKAGE AND MOISTURE MOVEMENT: THE COMPLETE APPROACH
PROGRAM NUMBER 7206**

As the demand for highly energy efficient and durable buildings continue to increase, it is becoming more critical that a complete building envelope design is considered to protect the structure from uncontrolled air leakage and moisture movement. By incorporating control layers within the building envelope, air leakage and moisture movement can be controlled. This presentation is designed to define air leakage and moisture movement, along with the negative impact that they can have on a structure. It will also provide an overview of the necessity and benefits of incorporating the four control layers into the building envelope assembly to control air, water, vapor, and heat. With the air barrier being a critical part of this assembly, it will be discussed in detail, along with several design options to control air leakage and moisture movement. This program is registered with the AIA/CES for continuing professional education and is HSW-approved. The course earns one learning unit (LU).

**DETAILING AIR BARRIERS
PROGRAM NUMBER 7205**

The one (1) hour course is an overview of the specific techniques for installing the different types of air barrier materials. Air barriers are required by code in most states. And while most architects understand the whys, they are not clear on the installation details. This important layer of the building envelope requires careful detailing and installation. Some firms are even requiring meetings with installation contractors to be sure details are correctly executed. This course covers tricky details, including rough openings, roof-to-walls, and joints between different building materials. This program is registered with the AIA/CES for continuing professional education, and is HSW-approved. The course earns one learning unit (LU).

**EFFECTIVE WATERPROOFING
PROGRAM NUMBER 0SW101**

This course explains some of the issues relating to concrete deterioration as a result of water penetration. The course also describes the different methods of dampproofing, waterproofing, and vaporproofing and differentiate between positive- and negative-side waterproofing. The course also identifies the various types of waterproofing systems and differentiates between them. This program is registered with the AIA/CES for continuing professional education, and is HSW-approved. The course earns one learning unit (LU).

**POLISHED CONCRETE FLOORS
PROGRAM NUMBER 3300**

This PowerPoint presentation on concrete polishing from W. R. MEADOWS provides the most current information on polished concrete, including the processes involved and the features and benefits of this type of flooring. W. R. MEADOWS has created this presentation to provide insight on why polished concrete is one of the fastest growing areas in the flooring industry, and also to provide exact detail, in a step-by-step format, of the concrete polishing process. In general, this presentation provides complete information on the science of polished concrete and the steps involved to properly install this type of floor. This program is registered with the AIA/CES for continuing professional education, and is also HSW-approved. The course earns one AIA credit.

**SELECTING THE CORRECT UNDERSLAB MEMBRANE
PROGRAM NUMBER 071199**

The first line of defense for protection of a building and its occupants starts below the concrete floor slab. Recently, not only has the concern been water and water vapor, but also other soil contaminants. Radon and methane, two naturally occurring contaminants, have been identified as being major issues for occupant health and safety. The continued construction in densely populated areas have dictated that brownfield sites are developed, bringing into play other types of contaminants in the form of hydrocarbons. This presentation will address the origin of these various contaminants and their effects, along with differentiating between an underslab moisture barrier and an underslab gas barrier. In addition, specific materials and their installation details will be discussed providing complete underslab protection. This program is registered with the AIA/CES for continuing professional education and is HSW-approved. The course earns one learning unit (LU).

**TREATMENTS TO IMPROVE CONCRETE PERFORMANCE PRESENTATION
PROGRAM NUMBER CC3300**

The intent of this presentation from W. R. MEADOWS is to provide the most current information available to explain the basics of cement hydration, and to introduce the various types of floor treatments and curing compounds available. The goal of this presentation is to help the specifying agency and end-user identify the correct material for the project. This program is registered with the AIA/CES for continuing professional education. The course earns one AIA credit.

**UNDERSLAB VAPOR RETARDERS AND BARRIERS PRESENTATION
PROGRAM NUMBER 711-98**

This PowerPoint presentation on underslab vapor barriers and moisture migration from W. R. MEADOWS provides the most current information on building envelope moisture migration. Ground-borne moisture is the leading cause of flooring failures today. W. R. MEADOWS has created this presentation to inform the viewer of ways to combat this problem. In the presentation, several points are discussed, including different types of moisture movement, proper vapor protection design, and ASTM specifications. In general, this presentation provides information on the science of proper underslab waterproofing and vapor proofing. This program is registered with the AIA/CES for continuing professional education, and is also HSW-approved. The course earns 1 AIA credit.

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