



“The Fly Ash Revolution: Improving Concrete Quality”

Fly ash pozzolan is a preconsumer material commonly used in concrete that can play an important role in gaining LEED™ certification (Leadership in Environmental Engineering Design). In addition to being a material useful for LEED™, fly ash pozzolan possesses chemical and physical properties found desirable to owners and builders who use concrete as a building material. Fly ash concrete assists in long-term strength and durability including sulfate resistance and alkali-silica reactivity.

Increasingly, architects and engineers are beginning to see the value of fly ash in concrete. Specifications are changing from allowing 15% replacement to requiring 15, 20, and even 50% replacement.

As a registered provider for AIA/CES, Headwaters Resources offers the program “The Fly Ash Revolution: Improving Concrete Quality”. All architects attending this course will receive 1 AIA learning unit qualifying as HSW credit (1LU/HSW).

Subjects to be covered, but not limited to:

- Historical use
- Fly ash manufacture
- Physical properties
- Chemical properties
- Strength Performance
- Durability and Permeability
- Sulfate and ASR Resistance
- Codes & Specifications
- Aesthetics
- Sustainable Development
- High volume fly ash projects

**For more information contact Tom Fox at 425 970 3155
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