

U.S. CONCRETE, INC.

EF TECHNOLOGY® – FACT SHEET



U.S. Concrete and its operating companies reduced potential carbon dioxide emissions since 2006 by over 1,500,000 tons through use of EF Technology®.

- ▶ U.S. Concrete is the first national concrete company to make a company-wide commitment to improving the environment through their patented process utilizing EF Technology®.
- ▶ Portland cement, an essential component of concrete, is responsible for approximately 5% of human-generated carbon dioxide, the greenhouse gas most attributed as the source of global warming.
- ▶ As a general rule, the production of one ton of cement releases one ton of carbon dioxide into the atmosphere.
- ▶ Fly ash and/or slag can replace more than 50% by weight of Portland cement in the production of concrete.
- ▶ Concrete containing ground, granulated slag continues the hydration process over a longer period of time resulting in better durability properties.
- ▶ By substituting 50% slag and/or fly ash cement for traditional Portland cement, between 100 and 300 pounds of carbon dioxide are saved per cubic yard of concrete.
- ▶ Slag cement requires nearly 90% less energy to produce than the equivalent amount of Portland cement, reducing the embodied energy in a cubic yard of concrete by 30% to 48%.
- ▶ The use of EF Technology® can assist in qualifying for Leadership in Energy and Environmental Design (LEED) credits

increasing the building's environmental performance rating.

- ▶ LEED® is a rating system developed by the United States Green Building Council to measure a building's environmental performance and has become the principal method by which buildings can achieve green building certification.
- ▶ The primary categories for earned LEED® credits in which EF Technology® can contribute to include:
 - ▶ Credit for reduction of heat islands.
 - ▶ Credit for energy efficiency.
 - ▶ Credit for innovation.
 - ▶ Credit for building reuse.
 - ▶ Credit for materials recycled content.
 - ▶ Credit for use of local/regional materials.
 - ▶ Storm water management - Pervious Concrete.

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