GEOPOLYMER SOLUTIONS, LLC

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COLD FUSION CONCRETE™-A600
PRODUCT DATA SHEET

COLD FUSION CONCRETE-A600 (A600) is a neat cement concrete material designed for resistance to hydrofluoric acid and general purpose use. A600 is resistant to degradation in various concentrations of hydrofluoric acid ranging from .01-percent to 50-percent with little to no mass loss. A600 can be utilized in low or high slump applications for construction of secondary containment, various feature construction such as drain systems, foundations, walls, flatwork, and every other application typically observed with Portland Cement mixtures.

FEATURES

- Resistant to hydrofluoric acid exposure at concentrations ranging from .01-percent to 50-percent.
- Resistant to most other acids.
- Resistant to chloride and sulfate exposure degradation.
- Green Technology.
- Can be colored.
- Polymer Modified.
- Utilized at slumps ranging from 1 to 11 inches.
- Fiber reinforced (micro).
- Interior and exterior applications.
- Resistant to freeze and thaw cycles.
- Can be used in hot or cold climates.
- Improves corrosion protection when placed on metal features.
- Supplied in Super Sacks, 55-lb bags, or Ready Mixed Concrete delivery.

RECOMMENDED USES

A600 is used in most any pneumatic or conventionally placed concrete application where the completed feature will be subject to hydrofluoric acid, or many other chemicals in very hot or very cold climates. A600 is many times utilized in the Petrochemical, Fertilizer, Food & Beverage, Mining, and Foundry Industries, and, the Oil & Gas Industry including off-shore drilling platforms due to its chemical resistance and complete resistance to chloride and sulfate attack.

EXPECTED CHARACTERISTICS

- 7,000 psi typical 28-day compressive strength at a water to cement ratio of 0.21, and a slump of 10 inches.
- 10,000 psi typical 28-day compressive strength at a water to cement ratio of 0.16, and a slump of 2 inches.
- 130 lbs/ft^3 wet density.
- 7,000 psi typical compressive strength in from 4 to 8 hours when subjected to cure temperatures greater than 120 degrees Fahrenheit.
- Heat resistance up to a sustained 600 degrees Fahrenheit, or brief higher temperature exposure.

A600 complies with building code requirements for interaction with conventional reinforcing steel, strength, and modulus properties, but does not comply with typical industry Portland Cement specifications due to the absence of Portland Cement. Cost savings combined with superior quality is not just a goal, it's inherent with A600.