



COLD FUSION CONCRETE™-A740 PRODUCT DATA SHEET

COLD FUSION CONCRETE-A740 (A740) is a 1/4-inch nominal size aggregate (lightweight) concrete material designed for resistance to excessive heat degradation and general purpose use. A740 is resistant to degradation at intermittent high temperature exposure up to approximately 2,600 degrees Fahrenheit. A740 can be utilized in low or high slump applications for construction of various feature construction such as drain systems, foundations, walls, flatwork, and every other application typically observed with Portland Cement mixtures.

FEATURES

- Resistant to acid exposure at concentrations ranging from 5-percent to 98-percent (except hydrofluoric).
- Resistant to hydrocarbon, chloride, and sulfate exposure degradation.
- Resistant to solvent exposure.
- Green Technology.
- Can be colored.
- Utilized at slumps ranging from 1 to 7 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

A740 is used in most any pneumatic or conventionally placed concrete application where the completed feature will be subject to intermittent excessive heat such as molten metal spills. A740 will sustain some surface melting during sustained high heat events, but will act as a heat transferring “system” thereby protecting the substrate underlying the surface materials. A740 is used in industrial and military applications where exposure to high heat conditions is expected, and chemical spills may also occur.

EXPECTED CHARACTERISTICS

- 4,500 psi typical 28-day compressive strength at a water to cement ratio of 0.22, and a slump of 7 inches.
- 6,000 psi typical 28-day compressive strength at a water to cement ratio of 0.19, and a slump of 5 inches.
- 85 lbs/ft³ wet density.
- 4,500 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 1,400 degrees Fahrenheit, or brief higher temperature exposure up to 2,600 degrees Fahrenheit..

A740 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 A740.](#)