



## COLD FUSION CONCRETE A-SERIES SL200 SELF-LEVELING

CFC A-Series Self-Leveling Concrete is an acid resistant, low permeability, medium density flowable concrete for use over wood, masonry, or cementitious elements as a structural leveling layer. SL200 contains no Portland Cement and none of the weaknesses including no bleed water, reduced freezing temperature of 14°F. SL200 is exothermic for the first approximate 120 seconds, and then produces an endothermic chemical cure.

For flat and level floor construction, final placed concrete elevations can be left 1/8" to 1/4" below intended final elevation. SL200 is placed as the final surfacing thereby removing the need for extensive finishing efforts to achieve Floor Flatness and Levelness requirements.

### FEATURES

- Low shrinkage and low thermal coefficients.
- No VOC's.
- Cures quickly in warm/hot weather allowing rapid completion of projects.
- Can be polished after 4 days of warm curing.
- Shrinkage compensators reduce/remove cracking.
- Elevated alkalinity removes mold and bacterial growth.
- Bonds to wood, concrete, masonry and just about everything except plastic or galvanizing.
- Resistant to all organic and inorganic acids and concentrations except for hydrofluoric.
- Acts as a water sealant.
- Can be colored.
- Green Technology containing absolutely no Portland.

### RECOMMENDED USES

- Corrects uneven or wavy concrete or wood finishes.
- Levels and repairs uneven surfaces.
- Used as a chemical/acid resistant barrier for vulnerable materials.

### PACKAGING, SHELF LIFE, COVERAGE

- Supplied in 50-pound bags or super sacks.
- Store in a covered area with ambient temperatures between 32°F and 90°F. Shelf life is approximately 2 years if properly stored. SL200 is packaged in a plastic lined paper bag with a folding flap spout. Long term high humidity storage over 6 months should be avoided.
- At a 1/4-inch depth (6.35 mm), one bag will cover 48 square feet (4.46 square meters).



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### DIRECTIONS FOR USE

- Wood Preparation - Prepare the surface of wood by removing any dirt, debris, or incompatible coatings. Wood should be dry.
- Concrete/Masonry Preparation - Prepare the surface of Portland materials by removing any dirt, debris, or incompatible coatings. Surface should be moist. SL200 will bond chemically to the Portland material, unless the Portland mixture has been subject to low pH materials. In the event a low surface pH condition exists, the concrete should be removed to a depth where the pH is a minimum of 9.5.
- Repair cracks in existing concrete before placing SL200. Existing cracks will propagate to the surface.
- Do not bridge construction joints, working saw cuts, or unrepaired cracks.
- Using a high-shear mixer set on high speed, gradually combine approximately 1.5 to 1.6 gallons of water per 50-lb bag and mix for 2 to 3 minutes. Longer mixing times will expedite the set time of SL200.
- Deposit the material on the surface being levelled using buckets, wheel-barrels, or other transport or mixing device. Use an up and down puddling action to distribute and reduce air bubbles, or move and distribute with a broom or squeegee; material will effort to reach its own level. A spike roller is optimal for leveling and spreading.
- For pumping, use rotor-stator, piston, or squeeze pumps. SL200 was developed using continuous mix rotor-stator pumps. With continuous mix apparatus, use a minimum of 100 feet of hose.
- Do not walk on the surface for from 2 to 8 hours after completion, dependent upon ambient temperature conditions.
- For exterior applications, seal with Fusion Bond sealant no sooner than 4 days after application in warm weather with average daily mean temperatures above 75°F, or 7 days in cooler weather.
- For interior or exterior applications, cooler weather below 70°F will extend the set time of SL200.

### EXPECTED CHARACTERISTICS AT 25% WATER CONTENT

CFC® SL200		LOW RANGE	HIGH RANGE
BULK DENSITY, PCF	ASTMC138	110	120
COMPRESSIVE STRENGTH, PSI	ASTMC579	6,000	9,000
BOND STRENGTH, PSI	ASTMC321	1,200	2,500
TENSILE STRENGTH, PSI	ASTMC307	1,200	2,500
YOUNG'S MODULUS, PSI	ASTMC469	4.5X10 <sup>6</sup>	6.0X10 <sup>6</sup>
POISSON'S RATIO	ASTMC469	.30	.50
COEFFICIENT OF THERMAL EXPANSION, 10 <sup>-6</sup> IN/°F	ASTM C 531	1.30	2.00
SERVICE TEMPERATURE, °F	-	14	1100
WATER ABSORPTION, %	ASTMC413	.05	1.0
WORKING TIME, MINUTES	ASTMC308	40	180
SHRINKAGE%	ASTM C531	-.007	+.010