



CE818 SUPER FLOW

ULTRA-HIGH FLOW, HIGH STRENGTH EPOXY GROUT

DESCRIPTION

FasTrac CE818 SUPER FLOW is a three-component, 100% solids, high performance, epoxy machine grout. It is characterized by low dust, high bearing area, negligible shrinkage and creep, high early and ultimate strength and very high flow characteristics.

APPLICATIONS

- Grouting of high speed rotating equipment pumps, motors, compressors and generators
- Grouting wind turbines
- Crane rail grouting
- Grouting of equipment subject to high impact and vibration
- Grouting of anchors and dowels

FEATURES

- High early strength and overall compressive strength
- High impact resistance, high effective bearing
- High oil and chemical resistance
- Precision grouting with negligible shrinkage and creep
- Easy soap and water clean up

PACKAGING AND YIELD

2.2 cu. ft. / 0.062 m³

Component A – (1) premeasured 5-gallon pail

Component B – (1) 1-gallon jug

Component C - (4) 49-lb bags aggregate

0.55 cu. ft.

Component A – (1) 1-gallon jug

Component B – (1) 1-quart jug

Component C – (1) 49-lb bag aggregate

PHYSICAL PROPERTIES

Appearance: Component A - clear, Component B - clear

Shelf Life: 2 years in original unopened container

Storage Conditions: Store at 40° F – 95° F (4.4° C – 35° C).

Condition material to 60° F – 95° F (18° C – 35° C) before using.

SURFACE PREPARATION

Concrete shall have reached its design strength and be dimensionally stable prior to placement of All surface contamination must be removed by mechanical means, creating a surface profile of exposed sound aggregate that will provide a strong bond surface. All metal surfaces to be in contact with grout should be coated with Arcolon 218HS Acrylic Polyurethane (or equivalent), or sandblasted to white metal finish and wiped clean with solvent. Items not intended to bond to grout, such as leveling screws, wedges and bolts must be protected with grout sleeves, wax, caulk, duct tape or similar.

FORM PREPERATION

Forms should be coated with a minimum of two coats of an

industrial grade paste wax to facilitate removal of forms after cure. Forms should have 45° angle chamfer strips at all vertical comers and horizontal grout grade elevation in order to eliminate sharp corners. Caulk, putty, or similar sealant should be used to render the forms "watertight".

Expansion joints shall be used and placed every 4 to 6 feet extending from form to form across the width of the skid in order to minimize the potential for cracking in epoxy grout.

MIXING

0.55 cu. ft.kit: Components A-Resin, and B-Hardener are packaged in separate containers. Pour both liquid components into pail and mix thoroughly for 3 minutes with a Jiffy mixer on low-speed (300 rpm) until material is a uniform consistency. NOTE: Keep mixer at bottom of pail to avoid introducing air. After liquid components are mixed, add component C-Aggregate.

2.2 cu ft. /0.062 m³ kit: Component A-Resin is packaged in a premeasured 5gal /18.8L pail, component B-Hardener is packaged in a 1gal /7.57L pail, component C-Aggregate is packaged in (4) 49 lb. poly-lined bags. Pour component B-Hardener into 5 gal / 18.8L, pail containing component A-Resin. Mix material thoroughly for 3 minutes with a Jiffy mixer on a low-speed (300 rpm) drill motor until a uniform consistency is achieved. NOTE: Keep mixer at bottom of pail to avoid introducing air. Pour liquids into mortar mixer, making sure to remove all resins from sides and bottom of pail with spatula or similar tool. Introduce first bag of component C-aggregate prior to starting mixer. Start mixer and slowly add the remaining three bags of aggregate.

Mix only until all aggregate is wetted out. DO NOT OVER MIX.

APPLICATION

CE818 SUPER FLOW should be poured into forms at one location in order to allow a unidirectional flow. Use of a header box will ease the placement of the finished product. Strict adherence to temperature considerations will assist the placement properties. Check forms frequently for leaks. Plug leaks with a hydraulic cement or putty. CE818 SUPER FLOW will not self-seal.

FINISHING

When forms are filled to desired elevation, exposed horizontal surfaces of CE818 SUPER FLOW may be finished with a surfactant such as CE SOLV 100 and a paintbrush or small hand trowel. Surfactant should be lightly sprayed or misted on surface. DO NOT PUDDLE on surface. This process can be repeated every 30 minutes until surfaces are firm.

TEMPERATURE CONSIDERATIONS

I - Epoxy grouts are temperature sensitive and care should be taken to condition all components (including component "C" aggregate) to between 65°F - 95°F (18°C - 35°C) for a minimum of 24 hrs. prior to mixing and placement.



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Temperatures colder than stated range increase viscosity of resins and inhibit mixing and flow of grouting materials. Temperatures warmer than stated range decrease viscosity of resins, hasten the cure" and reduce the working time of the grout. At the completion of the curing cycle the temperature shall be lowered slowly, no more than 40°F (4.4°C) in 48 hours to avoid the possibility of damage due to sudden contraction.

CLEANUP

CE818 SUPER FLOW allows for easy soap & water cleanup of tools, mixers and work area while CE818 SUPER FLOW is in the plastic stage. For materials that have started to set, CE Natural Clean or CE SOLV 100 may be used.

TECHNICAL DATA

CURING TEMPERATURE	WORKING TIME	INITIAL CURE TIME
50° F (10° C) 60° F (16° C) 70° F (21° C) 80° F (27° C) 90° F (32° C) 100° F (38° C)	3 HOURS 2 HOURS 1 HOURS 45 MINUTES 30 MINUTES 20 MINUTES	48 HOURS 36 HOURS 24 HOURS 12 HOURS 6 HOURS 4 HOURS
COMPRESSIVE STRENGTH (ASTM C579) @75° F 8-HOUR CURE 16-HOUR CURE 1-DAY CURE 2-DAY CURE 3-DAY CURE	14,000 psi (96.5 MPa) 16,500 psi (113.8 MPa) 17,500 psi (120.7 MPa) 18,000 psi (124.1 MPa) 18,500 psi (127.6 MPa)	
TENSILE STRENGTH (ASTM C307)	2,500 psi (17.24 MPa)	
FLEXURAL STRENGTH (ASTM C580) MODULUS OF ELASTICITY (ASTM C580)	6,500 psi (44.82 MPa) 2,100,000 psi (14,479 MPa)	
SHEAR BOND STRENGTH (ASTM C882)	3,500 psi (24.13 MPa)	
LINEAR SHRINKAGE ON CURE (ASTM C531)	NEGLIGIBLE	
COEFFICIENT OF THERMAL EXPANSION (ASTM C531)	16 x 10 ⁻⁶ in/in/°F	
SHORE D HARDNESS (ASTM D2240)	90	
WATER ABSORPTION (ASTM C431)	NEGLIGIBLE	
EFFECTIVE BEARING AREA (ASTM C1339)	>95%	
FIRE RESISTANCE (ASTM D635)	SELF EXTINGUISHING	



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