



# CE815 SUPER FLOW

ULTRA-HIGH FLOW, HIGH STRENGTH EPOXY GROUT

## DESCRIPTION

FasTrac CE815 SUPER FLOW is a three-component, 100% solids, high performance, epoxy machine grout. It is characterized by low dust, high bearing area, low exotherm, negligible shrinkage and creep, high 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
- Extended working time and extended working time
- High impact resistance, high effective bearing
- Low exotherm cure for deep pour capability
- 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.

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 - gray, 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. /0.056 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) 56 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

CE815 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. CE815 SUPER FLOW will not self-seal.

## FINISHING

When forms are filled to desired elevation, exposed horizontal surfaces of CE815 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.



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## 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. 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

CE815 SUPER FLOW is a low exothermic grout. The extended working time allows for easy soap & water cleanup of tools, mixers and work area while CE815 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		CE815 SUPER FLOW	
C579 Compressive Strength @75° F, Method B, Load Rate II			
	12-hour	9,900 psi	
	1-day	11,100 psi	
	3-day	15,500 psi	
	7-day	16,700 psi	
C579 Compressive Modulus of Elasticity		2,200,000 psi	
C1181 Compressive Creep (400 psi, 140° F)		<0.005 in/in	
C307 Tensile Strength		2,500 psi	
C307 Tensile Modulus of Elasticity		2,100,000 psi	
C580 Flexural Strength		4,500 psi	
C580 Modulus of Elasticity		2,000,000 psi	
C882 Bond Strength—Slant Shear Bond Strength		3,500 psi	
C1583 Bond Strength—Tensile Strength		Concrete Failure	
C884 Thermal Compatibility		pass	
D2471 Gel Time		60 minutes	
D2471 Peak Exotherm		110° F	
C531 Linear Shrinkage on cure		0.005%	
C531 Coefficient of Thermal Expansion		16 x 10-6 in/in;°F	
	Standard	16 x 10-6 in/in;°F	
Pour Depth at 75° F		Up to 24 inches with proper curing and expansion allowance	
Curing Temperature		Working Time	Initial Cure Time
	50° F / 16° C	6 hours	42 hours
	55° F / 18° C	5 hours	36 hours
	65° F / 21° C	3.5 hours	30 hours
	75° F / 24° C	2.5 hours	24 hours
	85° F / 29° C	1.5 hours	18 hours
	95° F / 35° C	1 hour	12 hours
	100° F / 38° C	45 min	6 hours



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