



CE815 EPOXY GROUT

HIGH PERFORMANCE EPOXY GROUT

ITEM NUMBER CE815

DESCRIPTION

CE815 Epoxy Grout 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, fast cure and excellent flowability.

INDUSTRY USES

CE815 is ideal for high stress applications such as wind turbines, gas transmission, refining, chemical processing, pulp and paper, crane rail, marine and other machine base plate grouting. New equipment installations or re-grouting applications subject to chemical attack and extreme vibration are ideal for CE815 Epoxy Grout. CE815 can also be used as an anchoring adhesive.

BENEFITS AND FEATURES

- Made in America
- High impact resistance, high early strength, high effective bearing area and excellent flowability.
- Low exotherm cure for deep pour capability
- High oil and chemical resistance
- Precision grouting with negligible shrinkage and creep
- Pre-measured units
- Easy soap and water clean up

TECHNICAL DATA

	CE815 Standard Set	CE815 Extended Depth		
C579 Compressive Strength @75° F				
1-day	10,500 psi	6,400 psi		
3-day	13,500 psi	10,500 psi		
7-day	15,000 psi	12,500 psi		
Five Bag Mix 7-day	16,000 psi	14,500 psi		
C579 Compressive Modulus of Elasticity	2,200,000 psi	2,100,000 psi		
C1181 Compressive Creep (400 psi, 140° F)	<0.005 in/in	<0.005 in/in		
C307 Tensile Strength	2,500 psi	2,200 psi		
C307 Tensile Modulus of Elasticity	2,100,000 psi	2,000,000 psi		
C580 Flexural Strength	4,500 psi	4,100 psi		
C580 Modulus of Elasticity	2,000,000 psi	2,000,000 psi		
C882 Bond Strength	3,500 psi	3,300 psi		
C884 Thermal Compatibility	pass	pass		
D2471 Gel Time	60 minutes	120 minutes		
D2471 Peak Exotherm	110° F	90° F		
C531 Linear Shrinkage on cure	0.005%	0.005%		
C531 Coefficient of Thermal Expansion				
Standard	16 x 10-6 in/in;°F	18 x 10-6 in/in;°F		
Five-bag mix	14 x 10-6 in/in;°F	15 x 10-6 in/in;°F		
Pour Depth at 75° F	Up to 12 inches with proper curing and expansion allowance		Up to 24 inches with proper curing and expansion allowance	
Curing Temperature	Working Time	Initial Cure Time	Working Time	Initial Cure Time
50° F / 16° C	4 hours	42 hours	8 hours	84 hours
55° F / 18° C	3 hours	36 hours	7 hours	72 hours
65° F / 21° C	2 hours	30 hours	5 hours	60 hours
75° F / 24° C	1.5 hours	24 hours	3.5 hours	48 hours
85° F / 29° C	45 min	18 hours	2.5 hours	36 hours
95° F / 35° C	30 min	12 hours	1.5 hours	24 hours
100° F / 38° C	20 min	6 hours	1 hour	12 hours

Note: The data presented above is representative of specimens cast and cured in controlled laboratory conditions.
Field cast specimens: Variations in mixing, material temperature, curing conditions and quality of specimens will affect test results. Field cast specimens should be made in 2" brass cube molds. Cylinder molds should not be used. Material, mixing, and curing temperatures as well as cube weights should be recorded. Specimens should be free of defects and should be tested per ASTM C579B Load Rate II (0.2-0.25"/minute).

PACKAGING

- | | |
|---|---|
| <ul style="list-style-type: none"> • 2.0 cu. ft. Component A – (1) premeasured 5-gallon pail Component B – (1) 1-gallon jug Component C - (4) 55-lb bag aggregate | <ul style="list-style-type: none"> • 0.5 cu. ft. Component A – (1) 1-gallon jug Component B – (1) 1-quart jug Component C – (1) 55-lb bag aggregate |
|---|---|



CE815 EPOXY GROUT

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 65° 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 CE815 Epoxy Grout. All surface contamination must be removed by mechanical means, creating a surface profile of exposed sound aggregate that will provide a strong bond surface for the CE815 Epoxy Grout. All metal surfaces to be in contact with grout should be 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 wax, caulk, duct tape or similar.

MIXING

CE815 Epoxy Grout is shipped in pre-measured 0.5cu ft. or 2.0 cu ft. units. Mix these products **ONLY** in complete units. **DO NOT THIN** or add any solvents prior to mixing.

0.5cu ft./0.14m3 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, slowly add component C-Aggregate. **Mix only until all aggregate is wetted out. DO NOT OVER MIX.** Pour mixed grout into forms.

2.0 cu ft./0.56 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 Epoxy Grout 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 Epoxy Grout will not self-seal.

Finishing: When forms are filled to desired elevation, exposed horizontal surfaces of CE815 Epoxy Grout 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. 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 Epoxy Grout is low exothermic grout. The extended working time allows for easy soap & water cleanup of tools, mixers and work area while CE815 Epoxy Grout is in the plastic stage. For materials that have started to set, CE SOLV 100 may be used.

LIMITED WARRANTY

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