



CE815 EPOXY GROUT

HIGH PERFORMANCE EPOXY GROUT

DESCRIPTION

FasTrac 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.

USE

FasTrac CE815 Epoxy Grout 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.

FEATURES

- 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
- Made in USA
-

PACKAGING AND YIELD

2.0 cu. ft. (0.0566 m³)

Component A – (1) premeasured 5-gallon pail
Component B – (1) 1-gallon jug
Component C – (4) 55-lb bags aggregate

0.5 cu. ft. (0.0142 m³)

Component A – (1) 1-gallon jug
Component B – (1) 1-quart jug
Component C – (1) 55-lb bag aggregate

PHYSICAL PROPERTIES

Appearance: Component A - clear, Component B - clear amber
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.

Form preparation: Epoxy grouts require heavy duty forms. A sheet of 3/4" plywood and proper bracing should be used to hold the force of the weight of the grout (140 lb./64kg per cu

ft). 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 30° angle chamfer strips at all vertical corners and horizontal grout grade elevation in order to eliminate sharp corners. Caulk, putty, or similar sealant should be used to render the forms "watertight". Forms should be designed to allow for a hydraulic head to facilitate the placement of CE815 Epoxy Grout. 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

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.

0.5 cu. ft. / 0.0147m³ kit: 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. / 0.0566 m³ kit: Pour component B-Hardener into the 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



CE815 EPOXY GROUT

HIGH PERFORMANCE EPOXY GROUT

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 a 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 Natural Clean or CE SOLV 100 may be used.

TECHNICAL DATA		CE815 Standard Set		CE815 Extended Set	
ASTM C579 Compressive Strength		psi (MPa)			
	1-day	10,500 (72.4)		6,400 (44.1)	
	3-day	13,500 (93.1)		10,500 (72.4)	
	7-day	15,000 (103.4)		12,500 (86.2)	
	Post Cured	16,000 (110.3)		14,500 (100.0)	
ASTM C579 Compressive Modulus of Elasticity		psi (MPa)		2,200,000 (15,170)	
ASTM C1181 Compressive Creep (400 psi, 140° F)		in/in or cm/cm		0.004	
ASTM C307 Tensile Strength		psi (MPa)		2,500 (17.2)	
ASTM C307 Tensile Modulus of Elasticity		psi (MPa)		2,100,000 (14,480)	
ASTM C580 Flexural Strength		psi (MPa)		4,500 (31.0)	
ASTM C580 Modulus of Elasticity		psi (MPa)		2,000,000 (13,790)	
ASTM C882 Bond Strength		psi (MPa)		3,500 (24.1)	
ASTM C884 Thermal Compatibility		pass		pass	
ASTM D2471 Gel Time		60 minutes		120 minutes	
ASTM D2471 Peak Exotherm		110° F (43.3°C)		90° F (32.2°C)	
ASTM C1339 Effective Bearing Area		95%		95%	
ASTM C531 Linear Shrinkage on cure		0.005%		0.005%	
ASTM C531 Coefficient of Thermal Expansion					
	Standard	in/in/°F (cm/cm/°C)		16 x 10 ⁻⁶ (28.8 x 10 ⁻⁶)	
	Five-bag mix			18 x 10 ⁻⁶ (32.4 x 10 ⁻⁶)	
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



CE815 EPOXY GROUT

HIGH PERFORMANCE EPOXY GROUT

LIMITED WARRANTY

All information provided by Cornerstone Construction Material LLC (CCM) concerning CCM products, including but not limited to, any recommendations and advice relating to the application and use of CCM products, is given in good faith based on CCM's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with CCM's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of CCM's control are such that CCM assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the CCM product(s) must test the product(s) for suitability for the intended application and purpose before proceeding the full application of the product(s). CCM reserves the right to change the properties of its products without notice. All sales of CCM product(s) are subject to its current terms and conditions of sale.

Prior to each use of any CCM product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Safety Data Sheet which are available at www.ccmaterial.com. Nothing contained in any CCM materials relieves the user of the obligation to read and follow the warnings and instructions for each CCM product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use.

CCM warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CCM SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. CCM SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

MANUFACTURER

Cornerstone Construction Material, LLC
1150 SE Hamblen Rd.
Lee's Summit, MO 64081
816-380-1082
www.ccmaterial.com