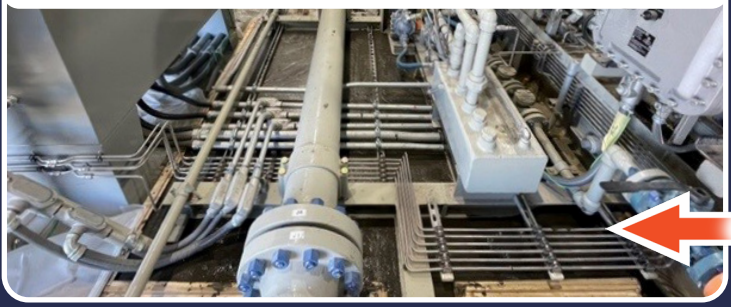
FASTRAC CE815 EPOXY GROUT

SUPPORTING AMERICA'S MACHINERY FOR OVER 30 YEARS

CE815 Epoxy Grout



Established in 1992, **Energy Tech Systems** continues to be your primary source for industrial machinery grouts, natural gas engine & compressor parts and epoxy pipe supports. Energy Tech Systems continues to be the largest and most experienced supplier of FasTrac Construction Products epoxy grouts in the North Eastern United States.

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.

FasTrac CE815 Epoxy Grout - Available Now at Energy Tech Systems

WEBSITE

CASE STUDY

Numerous Applications

- Large Rotating Equipment
- Sole Plates
- Anchor Bolts
- Crane Rails
- Foundation Repair
- Precision Equipment
- Wind Turbines
- Grout Pockets

For more information on these or other FasTrac products, please contact Energy Tech Systems in Exton, PA.

Complete data sheets are available on our website at EnergyTechSys.com.

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energytechsys.com

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
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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 65ºF - 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.

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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)		2,100,000 (14,480)	
ASTM C1181 Compressive Creep (400 psi, 140º F)		in/in or cm/cm	0.004		0.004	
ASTM C307 Tensile Strength		psi (MPa)	2,500 (17.2)		2,200 (15.2)	
ASTM C307 Tensile Modulus of Elasticity		psi (MPa)	2,100,000 (14,480)		2,000,000 (13,790)	
ASTM C580 Flexural Strength		psi (MPa)	4,500 (31.0)		4,100 (28.3)	
ASTM C580 Modulus of Elasticity		psi (MPa)	2,000,000 (13,790)		2,000,000 (13,790)	
ASTM C882 Bond Strength		psi (MPa)	3,500 (24.1)		3,300 (22.8)	
ASTM C884 Thermal Compatibility			pass		pass	
ASTM D2471 Gel Time			60 minutes		120 minutes	
ASTM D2471 Peak Exotherm			110º F (43.3°C)		90º 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})		18 x 10^{-6} (32.4 x 10^{-6})	
	Five-bag mix		14 x 10^{-6} (25.2 x 10^{-6})		15 x 10^{-6} (27.0 x 10^{-6})	
Pour Depth at 75º 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
	50º F / 16º C		4 hours	42 hours	8 hours	84 hours
	55º F / 18º C		3 hours	36 hours	7 hours	72 hours
	65º F / 21º C		2 hours	30 hours	5 hours	60 hours
	75º F / 24º C		1.5 hours	24 hours	3.5 hours	48 hours
	85º F / 29º C		45 min	18 hours	2.5 hours	36 hours
	95º F / 35º C		30 min	12 hours	1.5 hours	24 hours
	100º F / 38º C		20 min	6 hours	1 hour	12 hours

The latest product data sheets
are available on the FasTrac website.

WEBSITE