



FasTrac CE815 Epoxy Grout

HIGH-PERFORMANCE EPOXY GROUT



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE815 Epoxy Grout is a high-performance, three-component epoxy grout specifically designed for rotating equipment, machinery and dynamic load applications. FasTrac CE815 Epoxy Grout exhibits exceptional flow characteristics that allows use at full aggregate loading, ensuring maximum development of physical properties. A highly versatile material, FasTrac CE815 Epoxy Grout may be poured or pumped in place using proper equipment.

APPLICATIONS

- Pumps, motors, compressors
- 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
- High impact resistance and high effective bearing area
- Excellent oil and chemical resistance
- Easy soap and water clean up

SURFACE PREPARATION

All concrete surfaces shall be mechanically roughened to a Concrete Surface Profile (CSP) of 5 to 10 in accordance with International Concrete Repair Institute Guideline 310.2R, Selecting and Specifying Surface Preparation for Sealers, Coatings, Polymer Overlays and Concrete Repair. Concrete surfaces shall be completely dry and free of any standing water prior to grout placement. Blow out all surfaces with oil free compressed air to remove dust, debris and other bond inhibiting contaminants. Concrete shall reach design strength prior to grouting.

FORMWORK

Formwork shall be rigid and secured to withstand any head pressures developed during grout placement. Formwork should extend a minimum 1 inch above top of final grout level. Formwork must be caulked or sealed to a water-tight condition and treated with an appropriate release agent (2 heavy coats of wax, plastic sheeting) to prevent grout bond. Isolation joints may be required for larger pours – joints should be placed on 4 to 6 foot centers and extend full depth of placement. Formwork should be set so that grout shoulders do not exceed 4 inches (100 mm).

MIXING

Stage all grout components near mixer. Grout components should be between 65°F (18.3 °C) and 85°F (29.4°C) for best results. Pour all of Component B (hardener) into pail containing Component A (Resin). Slowly mix components with a drill and paddle attachment. Do not whip air into liquids. Mix for 1 ½ to 2 minutes then pour mixed liquids into a mortar mixer (rotating paddle mixer). Add Component C (Aggregate) 1 bag at a time with the mixer running. Mix for an additional 1 minute after last bag of Component C is added and aggregate is completely wetted. Use grout immediately after mixing.

INSTALLATION

Place grout from one side only unless otherwise instructed. Pour grout using a headbox to assist flow and movement of grout. Multiple headboxes may be required for larger applications. Continue placement until grout is observed at opposite side of placement. For pumping applications, contact FasTrac Construction Products.

CURING

Grout is self-curing at normal temperatures. DO NOT WET CURE. Grout must be protected from freezing temperatures and rapid temperature changes for a minimum 24 - 48 hours after placement depending upon strength requirements.



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PACKAGING AND YIELD

2.4 Cubic Foot Unit (.0679 m³) – 5 Bag Aggregate Unit | 2.0 Cubic Foot Unit (0.0566 cubic meter) – 4 Bag Aggregate Unit
 0.5 Cubic Foot Unit (.0141 m³) – 1 Bag Aggregate Unit

PHYSICAL PROPERTIES

Appearance: Component A - Clear, Component B - 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 – 85° F (18.3° C – 29.4° C) before using.

TYPICAL PROPERTIES at 75° F (23.8° C)				
TEST METHOD		RESULTS		
		4 BAG UNIT		5 BAG UNIT
ASTM C579 Compressive Strength B, Load Rate II				
		1 Day	9,000 psi (62.1 MPa)	10,000 psi (68.9 MPa)
		3 Days	14,000 psi (96.5 MPa)	14,500 psi (100 MPa)
		7 Days	15,500 psi (106.9 MPa)	16,000 psi (110.3 MPa)
ASTM C579 Compressive Modulus of Elasticity				
			2,200,000 psi (15172 MPa)	2,100,000 psi (14483 MPa)
ASTM C1181 Compressive Creep 400 psi @140° F (2.8 MPa @ 60° C)				
			<0.005 in/in (.127 mm/mm)	<0.005 in/in (.127 mm/mm)
ASTM C307 Tensile Strength				
			2,500 psi (17.2 MPa)	2,200 psi (15.2 MPa)
ASTM C307 Tensile Modulus of Elasticity				
			2,100,000 psi (14483 MPa)	2,000,000 psi (13789 MPa)
ASTM C580 Flexural Strength				
			4,500 psi (31.02 MPa)	4,100 psi (28.26 MPa)
ASTM C580 Modulus of Elasticity				
			2,000,000 psi (13789 MPa)	2,000,000 psi (13789 MPa)
ASTM C882 Bond Strength				
			3,500 psi (24.1 MPa)	3,300 psi (22.8 MPa)
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 C531 Linear Shrinkage on cure				
			0.01%	0.01%
ASTM C531 Coefficient of Thermal Expansion				
		4 Bag Unit	16 x 10 ⁻⁶ in/in °F (28 x 10 ⁻⁶ cm/cm °C)	18 x 10 ⁻⁶ in/in °F (32 x 10 ⁻⁶ cm/cm °C)
		5 Bag Unit	14 x 10 ⁻⁶ in/in °F (26 x 10 ⁻⁶ cm/cm °C)	15 x 10 ⁻⁶ in/in °F (25 x 10 ⁻⁶ cm/cm °C)
Pour Depth at 75° F				
			Minimum ½" up to 12 inches (12 mm up to 300 mm) with proper curing and expansion joint allowance	Minimum ½" up to 24 inches (12 mm up to 600 mm) with proper curing and expansion joint allowance
		4 BAG UNIT		5 BAG UNIT
Curing Temperature	Working Time	Initial Cure Time	Working Time	Initial Cure Time
50° F / 10° C	4 hours	42 hours	8 hours	84 hours
55° F / 12.8° C	3 hours	36 hours	7 hours	72 hours
65° F / 18.3° C	2 hours	30 hours	5 hours	60 hours
75° F / 23.8° C	1.5 hours	24 hours	3.5 hours	48 hours
85° F / 29.4° 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 / 37.8° C	20 min	6 hours	1 hour	12 hours

HEALTH AND SAFETY INFORMATION

Product contains epoxy resin, amines, and respirable silica. Wear proper PPE when using this product, including gloves, eye, and skin protection and NIOSH / MSHA approved respirator or dust mask. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

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Revised: 1-8-2024_SR

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