FasTrac CE818 Epoxy Grout

HIGH EARLY STRENGTH EPOXY GROUT

Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE818 Epoxy Grout is a high flow, high early strength epoxy grout designed specifically for equipment, rotating machinery, and dynamic loads. A high early strength material, Fastrac CE818 may be put back into service in as little as 8 hours. Excellent product versatility allows Fastrac CE818 to be poured or pumped in to place and provides excellent resistance to most chemicals and hydrocarbons.

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 and ultimate compressive strength
- Excellent working time
- High impact resistance
- High 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 fee 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 of 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.

MIXING

Stage all grout components near mixer. Grout components should be between 65°F and 85°F (18.3°F and 29.4°C) for the 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 the 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.

www.fastracproducts.com
816-380-4747
sales@fastracproducts.com
Lee's Summit, MO 64081

FasTrac CE818 Epoxy Grout

HIGH EARLY STRENGTH EPOXY GROUT

PACKAGING AND YIELD

1.5 cubic foot unit (.0425 m^3) – Component A Resin 5 gallon pail, Component B Hardener 1 gallon, Component C Aggregate 3 x 55 lb. bags
0.5 cubic foot unit (.0141 m^3) – Component A Resin 1 gallon container, Component B Hardener 1 quart container, Component C Aggregate 1 x 55 lb. bag

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 – 85° F (18.3° C – 29.4° C) before using.

TYPICAL PROPERTIES at 75° F (23.8° C)			
TEST METHOD		**RESULTS**	
ASTM C579 Compressive Strength B Load Rate II			
	8 Hours	14,000 psi (96.6 MPa)	
	16 Hours	16,500 psi (113.8 MPa)	
	1 Day	17,500 psi (120.7 MPa)	
	3 Days	18,500 psi (127.6MPa)	
ASTM C579 Compressive Modulus of Elasticity		2,100,000 psi (14,482 MPa)	
ASTM C307 Tensile Strength		2,500 psi (17.2 MPa)	
ASTM C580 Flexural Strength		6,500 psi (44.8 MPa)	
ASTM C882 Bond Strength		3,500 psi (24.1 MPa)	
ASTM C531 Linear Shrinkage on cure		Negligible	
ASTM C531 Coefficient of Thermal Expansion		16 x 10^{-6} in/in°F (28.8 x 10^{-6} cm/cm°C)	
Pour Depth at 75° F		Minimum ½ inch up to 3 inches (12 mm to 75 mm)	
Curing Temperature		**Working Time**	**Initial Cure Time**
	50° F / 10° C	3 hours	48 hours
	60° F / 15.6° C	2 hours	36 hours
	70° F / 21° C	1 hour	24 hours
	80° F / 26.7° C	45 min	12 hours
	90° F / 32° C	30 min	6 hours
	100° F / 37.8° C	20 min	4 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.

LIMITED WARRANTY

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 the 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. The 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 REPSONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac CE818 Epoxy Grout" product and in the information which we issue concerning these products and their use. We warrant our products to be good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only on quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, Cornerstone Construction Material LLC (CCM) makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Cornerstone Construction Material LLC (CCM) shall have no other liability with respect thereto. Any claim regarding a product defect must be received in writing within one year of the date of shipment. No claim will be considered without such written notice or after the specified time interval. The User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the Cornerstone Construction Material LLC (CCM) technical manager.

Revised: 1-8-2024_SR

www.fastracproducts.com 816-380-4747 sales@fastracproducts.com Lee's Summit, MO 64081