

PRODUCT DESCRIPTION

Coating & Binding Technology's Epoxy Tower Grout is a low exothermic epoxy system for machinery grouting. ETG-19 Epoxy Tower Grout is a three component, 100% solids, solvent-free system formulated to provide high-strength and superior creep resistance combined with the highest effective bearing area. ETG-19 provides precise alignment, high impact resistance, and oil and chemical resistance to dynamic load equipment foundation applications.

SUGGESTED USES

The uniqueness and universality of the ETG-19 chemistry facilitates high stress applications in industries such as wind turbine, gas transmission, refining, chemical processing, pulp and paper, steel rail, marine and other machine base plate grouting applications in the heavy industrial equipment industries. It may be used for new equipment installations or for quick re-grouting and may also be used for installing anchors and dowels.

HIGHLIGHTS

- High early and excellent strengths for fast turn around
- Excellent creep resistance
- Excellent flowability with high bearing area for even load distribution
- Exceptional strengths including flexural and tensile
- High degree of chemical resistance
- Thermal stability during application
- Easy soap and water clean up
- Pre-measured kits for ease of use

Product Details

Working Time:	45 mins @ 73F room temperature
Shelf Life:	1 year stored in unopened containers at storage temp of 75°F
Short-term Storage Temperature:	50°F – 90°F
Temperature Warning:	<u>Do not</u> store at temperatures below 50°F for longer than 5-7 days

Kit Size	Part Name	Package Size	Part Number
1.75 Cubic Feet	Epoxy Grout Part A	Short filled 5-gallon pail	ETG-19
	Epoxy Grout Part B	Short filled 1-gallon can	
	Epoxy Grout Part C	5 Bags	

**Required test method for Compressive Strength is C579-188.2.3.2

•Load Rate II-Set the testing machine to a cross head speed of 0.1 to 0.125in/min times the specimen height in inches (0.1 to 0.125cm/min times the specimen height in centimeters) when the machine is running without load.

The information contained herein is based on data believed by Coating & Binding Technology to be accurate. However, we do not assume any liability for the accuracy of this information. All such information is used at the customer's own risk since conditions of use are beyond our control and responsibility. All materials may present unknown health hazard, and the user is responsible for meeting all applicable safety, health, and environmental standards. Determination of suitability of any information or product for an intended end use, with respect to feasibility and / or patent infringement, is the sole responsibility of the user. Read the Safety Data Sheet before using this product.

Typical Properties	Results	ASTM Test
Compression Strength, psi (1 day cure @ 73.0°F, Load Rate II - 0.23 in/min)	19,827 psi avg.	ASTMC579B
Compression Strength, psi (4 day cure @ 73.0°F, Load Rate II - 0.23 in/min)	19,650 psi avg.	ASTMC579B
Compression Strength, psi (7 day cure @ 73.0°F, Load Rate II - 0.23 in/min)	22,570 psi avg.	ASTMC579B
Linear Shrinkage, % (7 day cure)	0.03% avg.	ASTMC531
Linear Shrinkage, in./in. (7 day cure)	0.0003 (in./in)	ASTMC531
Coefficient of Thermal Expansion, in/(in °F)	9.33 x 10 ⁻⁶ in/(in °F) avg.	ASTM C531
Effective Bearing Area	>95%	C1339

Each component of the PRODUCT was mixed and conditioned separately at 73°F ± 2°F. For test samples, they were mixed according to the manufacturer’s instructions at 73°F ± 2°F.

SURFACE PREPARATION

- Prior to application of ETG-19 Epoxy Tower Grout, concrete must be dimensionally stable to customers’ requirements and have reached the design strength.
- The surface must be free of all contamination, creating a sound surface profile free of dirt and oil.
- All metal surfaces to come 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.

Forms Required: Create a heavy-duty form using steel, wood, or other sturdy material and proper bracing to hold the grout with force of approximately 140 pounds per cubic foot. Coat each form using a minimum of two coats of an industrial grade paste wax to enable removal of forms after cure. Forms need to have 45° angle chamfer strips at all vertical corners and horizontal grout grade elevation in order to reduce sharp corners and edges. For circular forming systems, sharp edges may be shaved/ground down per the desires of installer. Use sealants, caulk, putty or other material to prevent leaks.

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MIXING

- Pour Part B into Part A
- Mix Part B and Part A with drill mixer at medium to high speed for 1 minute
- Place 3 bags of Part C into Mixer.
- Add Part A and Part B to the mixer and mix for 1 minute
- Add 1 bag of Part C
- Mix for 30 seconds
- Add the last bag of Part C
- Mix continuously for 2 1/2 minutes.
- The total mixing time should be 4 minutes.

APPLICATION

Fill anchor bolt holes and block-outs first. For flat baseplates, pour from one side to prevent air entrapment. When grouting plates, pour grout into the headbox and allow to flow under the plate.

TEMPERATURE CONSIDERATIONS

During cold weather below 55°F (13°C), the foundation should be enclosed and maintained above 55°F. Wind Towers or machinery may be cooler at time of pour as long as foundations are within temperature range and ambient conditions are maintained, you can proceed. The cure time of the grout will be longer during cold weather. The ambient air temperature in grouted area must be kept warm above 75°F (24°C) until the grout has cured completely. Conversely, in hot weather, do not mix and pour in extreme heat or direct sunlight. Work time will be reduced. Please consult manufacturer in temperatures above 95°F.

At the completion of the curing cycle the temperature shall be lowered slowly, no more than 40°F (4.5°C) in 48 hours to avoid the possibility of damage due to sudden contraction.

METHODS OF PLACEMENT

ETG 19 Epoxy Grout may be poured or pumped into place. ETG 19 grout shall be placed from one side to the other, maintaining contact with the bottom of the base plate at all times. For grout pours or grout pumping depths less than 1 inch (25 mm) or greater than 18 inches (457 mm), or volumes exceeding 24 ft³ (680 liters), call the local CBT representative.

CLEANUP

Clean mixing equipment using dry aggregate, soap, and water in mixing drum for a few minutes. For materials that have started to set, use Xylol, or other approved solvents. Clean hands with abrasive hand soap.

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WARRANTY

CBT warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of CBT. If any product fails to meet this warranty, the liability of CBT will be limited to replacement of any non-conforming material if written notice containing full details of the non-conformity is given to CBT within (1) one year of delivery of materials. CBT may in its discretion refund the price received by CBT in lieu of replacing the material. CBT does not authorize anyone on its behalf to make any written or oral statements which in any way alter CBT's warranty or installation and storage information or instructions in its product literature or on its packaging labels. CBT reserves the right to inspect the non-conforming material prior to replacement. CBT MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES AND DISCLAIMS THE SAME, INCLUDING, WITHOUT LIMITATION, FAILURE OF THE PRODUCT DUE TO ACTS OF GOD, FLOODING, EXTREME OR ABNORMAL TEMPERATURES, HUMIDITY AND MOISTURE, STRUCTURAL CONDITIONS, SITE PREPARATION AND CONDITIONS, ACCIDENTS, DAMAGE CAUSED BY INSTALLATION OF MACHINERY, EQUIPMENT OR FIXTURES WITHOUT ADEQUATE FLOOR PROTECTION OR WITHOUT ADEQUATE TIME FOR CURING, FAILURE TO COMPLY WITH CONDITIONS OF USAGE, VANDALISM, NEGLIGENT OR INTENTIONAL ACTS OF THIRD PARTIES OR OTHER CASUALTIES.