

**PRODUCT DESCRIPTION**

Coating & Binding Technology's Epoxy Machine Grout is a low dust, low exothermic epoxy system for industrial machinery grouting where flow-ability, reliability and performance are key. EMG-HF-ST Epoxy Grout is a three component, 100% solids, solvent-free system formulated to provide high-strength, superior flow-ability and creep resistance combined with the highest effective bearing area. EMG-KC is often used to replace steel sole-plates or rails, compressor skids for air, oil and gas refining, and is used as an epoxy foundation capping material that is resistant to high operating temperatures, chemical exposure and high levels of vibration.

**SUGGESTED USES**

The uniqueness and universality of the EMG-HF-ST chemistry facilitates high stress applications in industries such as oil and 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 flow-ability with high bearing area for even load distribution
- Excellent creep resistance
- Exceptional strengths including flexural and tensile
- High degree of resistance to chemical and physical degradation
- Vibration dampening
- Grout with insignificant shrinkage and ease of precision application
- Thermal stability during application
- Easy soap and water clean up
- Pre-measured kits for ease of use

Peak Exotherm (pint can):	86F @ 73F room temperature
Working Time:	110 mins @ 73F room temperature
Full Cure:	5 – 7 Days
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 40°F for longer than 5-7 days

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.

Kit Size	Part Name	Package Size	Part Number
1.75 Cubic Feet	Epoxy Grout Part A	2.41 Gallons (in a 5-gallon pail)	EMG-HF-ST
	Epoxy Grout Part B	0.80 Gallons (in a 1-gallon can)	
	Epoxy Grout Part C	5 Bags	

Typical Properties	Results	ASTM Test
Compression Strength, psi (1 day cure @ 73.0°F)	11,900 psi avg.	ASTM C579B
Compression Strength, psi (3 day cure @ 73.0°F)	16,842 psi avg.	ASTM C579B
Compression Strength, psi (7 day cure @ 73.0°F)	18,335 psi avg.	ASTM C579B
Linear Shrinkage, % (7 day cure)	0.01% avg.	ASTM C531
Coefficient of Thermal Expansion, in/(in °F) (210°F equilibration)	14.6 x 10 <sup>-6</sup> in/(in °F) avg.	ASTM C531
Coefficient of Thermal Expansion, in/(in °F) (140°F equilibration)	10.4 x 10 <sup>-6</sup> in/(in °F) avg.	Modified 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.**

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**SURFACE PREPARATION**

All surfaces that will come into contact with EMG-HF-ST Epoxy Grout must be clean and free from oil, grease, and other impurities. Steel surfaces with sharp edges or ridges should be ground smooth before applying the grout. Areas where bonding is not required should be thoroughly coated with a release agent, grease, or wax. Seal all open areas with putty or a similar material to contain the grout and prevent any unintended leaks.

**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.

**MIXING**

- Pour Part B into Part A
- Mix B and A with drill mixer at medium to high speed for 1 minute
- Place three bags Part C into mixer
- Add Part A and B and mix 1 minute, then add 1 bag Part C
- Mix for 1 ½ minutes and add last bag Part C
- Mix for 2 ½ 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.

**THICKNESS**

EMG-HF-ST Epoxy Grout has a thickness range of 1 1/2" to 10". Call your local CBT representative for guidance on thicker sections. Please see list of recommended Coating and Binding Technology products for different thickness or contact Coating and Binding Technology for additional application instructions.

**Products to use based off of Grout Thickness:**

THICKNESS	PRODUCT CODE
Less than 1 1/2"	EMG-HF-TP (Thin Pour)
1 1/2" to 10"	EMG-HF-ST (Standard)

**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.

**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.