

# GE-GFC TECHNICAL DATA (Epoxy Crack Filler)

## PRODUCT DESCRIPTION:

GE-GFC is a two component 100% solids epoxy crack filler which is designed for small sized repairs on both vertical or horizontal surfaces. This product is user friendly and has a non-critical mix ratio. Additionally the product can be applied thicker on horizontal surfaces when required because it is a 100% solids formulation.

**RECOMMENDED FOR:** Recommended for repairing cracks and defects in concrete or masonry.

**SOLIDS BY WEIGHT:** 100%

**SOLIDS BY VOLUME:** 100%

**VOLATILE ORGANIC CONTENT:** Less than 11 g/L  
**STANDARD COLORS:** Gray (when mixed)

## RECOMMENDED FILM THICKNESS:

1/8" cracks or thin build repairs.

## COVERAGE PER GALLON:

0.13 cubic feet or 1,228 lineal feet @ 1/8" x 1/8"

## PACKAGING INFORMATION

2 gallon kit= 1 gallon part A @ 11.1 pounds and 1 gallon part B @ 11.2 pounds (22.3 pounds net).  
10 gallon kits (111.5 pounds net)

(volumes and weights approximate)

## MIX RATIO:

1 part A to 1 part B by volume

## SHELF LIFE:

6 months in unopened containers

## ABRASION RESISTANCE:

Taber abraser CS-17 calibre wheel with 1000 gram total load and 500 cycles = 36 mg loss

## FLEXURAL STRENGTH:

7,500 psi @ ASTM D790

## COMPRESSIVE STRENGTH:

8,710 psi @ ASTM D695

## ADHESION:

350 psi @ elcometer (concrete failure, no delamination)

**VISCOSITY:** Mixed = > 3,100,000 cps (typical)

## DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "not regulated"

**TENSILE STRENGTH:** 6,256 psi @ ASTM D638

**ULTIMATE ELONGATION:** 2.4%

## GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

**HARDNESS:** Shore D = 65

## HEAT DEFLECTION TEMP.:

59 degrees C (138 degrees F)

**PRIMER:** None necessary

**TOPCOAT:** Optional: This product can be coated with many suitable epoxy and urethane products.

## CURE SCHEDULE (70 Degrees F)

Pot Life (2 Gallon Volume)	1-3 hours
Tack Free (Dry to Touch)	5-10 hours
Recoat/Topcoat: immediately after application	
Light Foot Traffic	10-24 hours
Full Cure (Heavy Traffic)	2-7 days
Application Temperature: 60-90 degrees F	

## CHEMICAL RESISTANCE

Butanol	C
Xylene	B
1,1,1 trichloroethane	A
MEK	A
Methanol	A
Ethyl Alcohol	A
Skydrol	B
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric Acid	C
70% Sulfuric Acid	A
10% HCl (aq)	C
5% acetic acid	A

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

## LIMITATIONS:

Color stability may be affected by environmental conditions such as high humidity, chemical exposure, or exposure to certain types of lighting such as sodium vapor lights.

Colors may vary from batch to batch.

This product is not UV color stable and may discolor when exposed to UV light sources.

Substrate temperature must be 5°F above dew point.

All new concrete must be cured for at least 30 days prior to application.

Many epoxy products can be placed directly over the uncured epoxy crack filler immediately after the material is used provided that the cracks are small. If coating over repairs that are larger, it may be advisable to allow the material to become tack free prior to application of subsequent coatings. See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

GLOBAL MARBLE EPOXY CRACK FILLER

## MIXING AND APPLICATION INSTRUCTIONS: GE-GFC Epoxy Crack Filler

**PRODUCT STORAGE:** Store this product at a normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or temperature fluctuations may cause product crystallization.

**SURFACE PREPARATION:** All dirt, foreign contaminants and oil must be removed to assure a proper bond to the substrate. Before application, a test should be made to determine that the concrete is dry. This is most easily done by placing a 4'X4' plastic sheet on the floor and taping down the edges. If after 24 hours, the plastic sheet has no condensation underneath it, the substrate is dry enough to start repair work. This product is intended for hairline cracks and other fractures up to an 1/8 inch in width. Remove all unsound concrete and debris from within the crack and thoroughly vacuum all debris and dust from within the crack opening.

**PRODUCT MIXING:** This product has a mix ratio of 1 part A to 1 part B by volume. To mix, measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a paint mixer, putty knife or paint stick until the material is uniform in color. Mix only an amount of material that can be used in the allotted pot life period (1-3 hours). Improper or insufficient mixing may result in product failure.

**PRODUCT APPLICATION:** With no priming required, the mixed material can be applied immediately with a marginal trowel, putty knife or any other suitable tool.

**RECOAT OR TOPCOATING:** When repairing cracks that are less than 1/8" thickness, most epoxies can be placed directly over the applied crack filler before it is cured. You can also wait for the GE-GCF to cure before applying epoxy over it. Excess amounts of this material may cause amine blush (a whitish, greasy film) on top of the product. If this blush is noticeable, it can be cleaned with xylol or by any standard detergent cleaner prior to topcoating or re-coating. Many epoxy coatings and urethanes are compatible for use over this product. It is possible to do multiple coatings of this product.

**CLEANUP:** Use xylol.

**FLOOR CLEANING:** Caution! Some cleaners may affect the color of the GE-GCF. It is recommended to test any cleaner you plan on using on a sample board prepared earlier. If no ill effects are noted, you can use the cleaner in question.

**RESTRICTIONS:** Before the product is fully cured, keep floor traffic light (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

### **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***

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