

DESCRIPTION

CANTOL EPOXY CRACK FILLER 818 is a two component 100% solids epoxy crack filler designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use and has a non-critical mix ratio. Additionally, the product, because it is a 100% solids formulation, can be applied thicker on horizontal surfaces when required.

FEATURES

- 100% Solids Epoxy
- Non-critical Mix Ratio
- Pot Life is 1-3 Hours
- Recommended for repairing cracks and defects in concrete or masonry
- Easy To Mix
- Easy To Use
- For Vertical and Horizontal Surfaces

DIRECTIONS

PRODUCT STORAGE

Store product at 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, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet then 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 from within the crack to be repaired 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, simply measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a jiffy mixer, putty knife or spatula until the material is thoroughly mixed and uniform in color. Mix only an amount of material that can be used in the allotted pot life period. Improper or insufficient mixing may result in product failure.

PRIMING:

No priming is necessary.

PRODUCT APPLICATION

The mixed material can be applied by marginal trowel, putty knife or any other suitable equipment.

RECOAT OR TOPCOATING

When repairing cracks that are less than 1/8" thickness, many epoxies can be placed directly over the applied crack filler before it is cured. Alternatively, it is also acceptable to allow the material to cure before installing the coating. If excessive amounts are spread well beyond the crack repair or in an areas where surface repairs have been implemented, it is best to check the cured areas for any possible amine blush (a whitish, greasy film or deglossing) prior to coating over this material. If a blush is present, it can be removed by any standard type detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this product.

CLEANUP

Use xylol.

FLOOR CLEANING

Caution! Some cleaners may affect the color of the fast gel installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

TECHNICAL DATA

Solids By Weight: 100%

Volatile Organic Content: Zero pounds per gallon

Colors Available: Gray when mixed.

Recommended 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 properly stored at normal room temperature.

Hardness: Shore D = 65

Tensile Strength: 6,256 psi @ ASTM D638

Ultimate Elongation: 2.4%

Impact Resistance: Excellent

Abrasion Resistance: Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 36 mg loss

Adhesion: 350 psi @ elcometer (concrete failure, no delamination)

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

Heat Deflection Temp.: 59° C (138° F)

PRODUCT DATA

EPOXY CRACK FILLER 818

DOT Classifications: Part A “not regulated”

Part B “CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII

Cure Schedule: (70°F)

Pot life – 2 gallon volume	1-3 hours
Tack Free (dry to touch)	5-10 hours
Recoat Or Topcoat	immediately after application
Light Foot Traffic.....	10-24 hours
Full Cure (heavy traffic).....	2-7 days

Application Temperature: 40-90° F

CHEMICAL RESISTANCE:

REAGENT	RATING
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% HC1 (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.

Clean Up: Xylol

Primer: None required

Topcoat: Optional: This product can be overcoated with many suitable epoxy and urethane products.

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.
- Physical properties are typical values and not specifications.

PRECAUTIONS

WARNING: Causes irritation. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. May cause skin sensitization. **KEEP OUT OF THE REACH OF CHILDREN. FIRST AID:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek prompt medical attention. Flush skin with soap and water. If ingested, do not induce vomiting. Call a physician.

GUARANTEE

Cantol guarantees its products, when used as directed, to do all it claims. Should the product fail to demonstrate our claims, the remaining material may be returned to us and no charge will be made.