

TECHNICAL DATA SHEET

EPOXY CRACK FILLER

PRODUCT DESCRIPTION:

MF818 a two components 100% solids epoxy crack filler designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use. Additionally, because the product is a 100% solids formulation, it can be applied thicker on horizontal surfaces when required.

RECOMMENDED FOR:

MF818 is recommended for priming or coating concrete, wood or masonry.

SOLIDS BY WEIGHT:

100%

SOLIDS BY VOLUME:

100%

VOLATILE ORGANIC COMPOUND:

Less than 11 g/l

STANDARD COLOURS:

Grey (when mixed)

RECOMMENDED FILM THICKNESS:

3mm (1/8") cracks or thin build repairs.

COVERAGE PER GALLON:

0.13 cubic feet or 1,228 lineal feet @3mm x 3mm (1/8" x 1/8")

PACKAGING:

2 gallon kits = 1 gallon part A @ 11.1 lbs. and 1 gallon part B @ 11.2 lbs. (22.3 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)

TDG CLASSIFICATIONS:

Part A "Not regulated"

Part B "LIMITED QUANTITIES"

TENSILE STRENGTH:

6,256 psi @ ASTM D638

ULTIMATE ELONGATION:

2.4%

GARDNER VARIABLE IMPACTOR:

50 in. lbs. direct – passed

HARDNESS:

Shore D = 65

HEAT DEFLECTION TEMPERATURE:

59°C (138°F)

DRYING TIMES: (21°C – 70°F) @ 50% RH

Pot life – 2 gal..... 1-3 hours

Tack free (dry to touch) 5-10 hours

Recoat or topcoat..... immediately after application

Light foot traffic... 16-24 hours

Full cure (heavy traffic) 2-7 days

APPLICATION TEMPERATURE:

15°C – 32°C (60°F – 90°F)

CHEMICAL RESISTANCE:

<u>REAGENT</u>	<u>RATING</u>
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.

PRIMER:

Not required

TOPCOAT:

This product can be top coated with suitable epoxy and urethane products.

LIMITATIONS:

- Colour 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.
- Colours may vary from batch to batch.
- This product is not UV colour stable and may discolour when exposed to UV light sources.
- Substrate temperature must be 3°C/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 **MF818 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.

MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should remain between 15°C – 32°C (60°F – 90°F). Keep from freezing.
- 2) **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 a 3mm (1/8") 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.
- 3) **PRODUCT MIXING:** 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.
- 4) **PRODUCT APPLICATION:** The mixed material can be applied by marginal trowel, putty knife or any other suitable equipment.
- 5) **RECOAT OR TOP COATING:** When repairing cracks that are less than 3mm (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 area 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 top coating or recoating. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this product.
- 6) **CLEANUP:** Use xylene.
- 7) **FLOOR CLEANING:** Caution! Some cleaners may affect the colour of the floor 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.
- 8) **RESTRICTIONS:** Restrict the use of the floor to light traffic and mild chemicals until the coating is fully cured. 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.
- 9) **CAUTION:** Exposure during the curing stage of the coating to the by-products of **propane** combustion may cause discoloration to occur. During application and curing, propane fueled fork-lifts and other vehicles or propane fueled heaters should not be used in the area until the coating is fully cured, at least 72 hours.

Before using any product, be sure the Safety Data Sheet is read and understood.

Please contact your MF Paints Inc. representative at 1-800-363-8034 for further information.

WARRANTY

This product will give full satisfaction if applied according to the manufacturer's instructions. Manufacturer's liability is limited to the replacement of the product and does not include manpower if found to be defective upon inspection.

Contact your municipality to dispose of the container and any surplus in a safe and ecological manner.