

TECHNICAL DATA- EC818X

Crack Repair Epoxy Putty

PRODUCT DESCRIPTION:

EC818X 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.

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

COLORS AVAILABLE:

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 calibrase 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 "CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII"

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)

CURE SCHEDULE: (70°)

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:

60-90 degrees 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% 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:

None necessary

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.

*See reverse side for application instructions.

*Physical properties are typical values and not specifications.

*See reverse side for limitations of our liability and warranty.