CRACK REPAIR

2-COMPONENT, 1 TO 1 MIX RATIO

Product Data

Volumetric Ratio..... 1 to 1
Solids.....95% (+ or - 1%)
Application Temperature ..... 55-95°F
Thinning ..... Not Required
Pot life..... 5 min.
Working Time on Floor.....10 min.
Cure Time .....12 - 15 min.
Critical Re-Coat Time* ..... 12 hrs.
Shelf life .....12 months.
*Sand prior to recoat

Color

• Medium Gray

Packaging

22oz Cartridge:

Part A 11oz
Part B.....11oz

PRODUCT DESCRIPTION

Crack Repair is a 2-component elastomeric sealing polymer system designed to act as a crack filler primarily in concrete. This material provides exceptional adhesion characteristics and fast cure times. It is highly chemical resistant, UV stable, insensitive to water, abrasion resistant, and remains thermally stable in a range of -20°F (-29 C) to 250°F (125 C). It may be used under traditional floor coatings or any of our top-coating materials. Crack Repair is used in heavy traffic warehouse floors, refrigeration floors, chemical spill prone floors, pothole road repair or under ceramic tile floors. It meets FDA regulations for indirect food contact (CFR 21, Sec. 175-300).

Crack Repair is formulated to use as a vertical paste compound to trowel in gaps and cracks in vertical concrete structures or as a horizontal self-leveling filler for floor cracks. All cracks and gaps should be blown out to eliminate water and loose concrete chips and dirt. Refer to MSDS for material and safety standard procedures.

APPLICATIONS

E2U Crack Repair is ideal for bonding cracked slabs, emergency repair situations before coating, repairing control joints, and filling cavities in cement.

ADVANTAGES

- Essentially odorless
- VOC Free
- Chemically Resistant
- Cures in less than 30 minutes
- Ready to grind after curing
- Ability to withstand heavy traffic
- Meets USGBC LEED criteria IEQ4.1

CONCRETE PREPARATION

Preparation of substrate surface prior to the application of Crack Repair is important as durability is only as good as its adhesion. The surface temperature must be 5° above dew point and no condensation is present on the surface. Crack Repair requires the concretely surface be clean/dry and free from contamination. Normally, chipping or blasting is sufficient to obtain proper bonding. Mild detergent may be used to remove oils and dirt. Rinse thoroughly and blow dry. Surface application temperature may range from 20°F (-29 C) to 150°F (65 C). This product may be applied with cartridge gun, hand mixed or plural component liquid pumping equipment. Gel time range at 75°F (24 C) is 4min. Apply Crack Repair in a heavy over-filling quantity, let cure for 30 minutes prior to grinding level with floor. Heated material is not required if ambient temperature is above 70°F (21 C). Store materials in dry environment. For long storage, displace air in drums with nitrogen. Always wear safety gear when applying isocyanate/polyol resin based systems.

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APPLICATION INSTRUCTIONS

NEW CONCRETE: INTERIOR CONTROL JOINTS/EXPANSION JOINTS – The concrete should be allowed to cure for a minimum of 60 to 90 days. Any moisture present in the joint should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90 ° angles to a minimum depth of 1 inch. The joint should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by "burnishing" the sides of the joint with a grinder. After sawing or grinding, the joint should be vacuumed using a common "shop-vac" to remove as much dust and debris as possible. In some cases, closed cell joint backer can be used to prevent "sinkers" or continuously running material. It should be noted that the use of joint backer does not provide optimum joint protection. It may be necessary to stop "sinkers" by making several passes over the joint and allowing the material to cure in between passes. Crack Repair should be placed in the joint full depth, overfilled, and allowed to cure for a minimum of ten minutes before shaving level with the concrete.

AGED CONCRETE: INTERIOR CONTROL JOINTS/EXPANSION JOINTS – Remove all existing joint sealer and joint backer. Any moisture present in the joint should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90 ° angles to a minimum depth of 1 inch. The joint should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by "burnishing" the sides of the joint with a grinder. After sawing or grinding, care should be taken that minimal amounts of dust and debris are left over in the joint. The joint should be vacuumed using a common "shop-vac" to remove as much dust and debris as possible. In some cases, closed cell joint backer can be used to prevent "sinkers" or continuously running material. It should be noted that the use of joint backer does not provide optimum joint protection. It may be necessary to stop "sinkers" by making several passes over the joint and allowing the material to cure in between passes. Crack Repair should be placed in the joint full depth, overfilled, and allowed to cure for a minimum of ten minutes before shaving level with the concrete.

SPALLS/BLOWOUTS Remove all existing materials from the spall or blowout. Any moisture present in the spall should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90° angles to a minimum depth of 1 inch. The spall should be widened slightly to ensure adhesion to freshly opened concrete.

E2U CRACK REPAIR PHYSICAL PROPERTIES

Dispensing Ratio		**1A - 1B**	**1A - 2B**
Tensile Strength	ASTM D412	2950 psi	1500 psi
Elongation	ASTM D412	350%	800%
Modulus	ASTM D412	1620	1400
Pensky-Martin Taber Abrasion (mg loss)	ASTM D4060	25	20.5
Hardness Shore A	ASTM D2240	95	85
Tear Strength (PLI)	ASTM D412	400	450
Salt Water Spray	ASTM B117	Pass 500 hours	Pass 500 hours
Seawater Immersion	ASTM D870	Pass 300 hours	Pass 300 hours
Flexibility	ASTM D1737	Pass 1/8" mandrel	Pass 1/8" mandrel
Flash Point	Pensky-Martin	>200 F	>200 F
Viscosity A-Side CPS	Zahn #2 Cup	>200 F	>200 F
Viscosity B-Side CPS	Zahn #2 Cup	>1200 F	>1200 F
Gel Time	Minutes	<2	<5
Tack Free Time	Minutes	<5	<10

CLEAN UP

E2U Crack Repair, while in an un-reacted state, may be cleaned up with a light solvent. Isopropyl alcohol or acetone may be needed once the resin begins hardening. A strong solvent like methylene chloride may be required if E2U crack Repair is nearly set up. Once cured, you must diamond grind to remove.

PRODUCT LIMITATIONS

E2U Crack Repair is an aromatic polyurea. While the physical properties may not be affected, the elastomer could yellow and chalk with exposure to UV or Hg vapor light. It is highly recommended to use a dark color for any application requiring color stability. If color stability is mandatory, contact the manufacturer for recommendations. The chemical resistance chart should be consulted prior to any application. Crack Repair was designed to protect the edges of concrete control and expansion joints. Crack Repair will pull away from the joint edges if too much slab movement is encountered. This characteristic allows for easy replacement and to alert the property owners that movement is present.

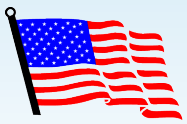
WARRANTY

E2U products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.

KEEP OUT OF REACH OF CHILDREN

SAFETY

Consult material safety data sheet. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.



MADE IN THE USA