TuffTex Materials
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RepPoxy CI
Low Viscosity Crack Injection Epoxy

DESCRIPTION:
RepPoxy CI Injection Resin is two-component, 100% solids, moisture-insensitive, ultra-low viscosity, high strength, high modulus, multi-purpose liquid epoxy adhesive.

FEATURES:
- Structurally restores integrity of concrete
- Ultra Low Viscosity for deep penetration
- High strength structural adhesive
- Made in America
- Moisture Tolerant
- Solvent Free
- Convenient 2:1 mix ratio by volume
- Healer sealer closes hairline and shrinkage cracks on bridge decks

USES:
Use for pressure-injection of hairline cracks in structural concrete, masonry, wood, etc. Can also be used for delamination injection, wood beam injection, gravity feed of cracks in horizontal concrete and masonry.

TECHNICAL DATA:
RepPoxy CI meets or exceeds current ASTM C881 and AASHTO M235 Types I, II, IV & V Grade 1, Classes B & C specifications.

PACKAGING AND YIELD:
- 1 gal / 3.8 L unit
- 3 gal / 11.4 L unit
- 15 gal / 56.8 L unit
- 450 ml cartridge

COVERAGE:
One gallon (3.8 L) of epoxy yields 231 in3 (0.0037 m3)

STORAGE:
Store in a cool, dry area, 40ºF-95ºF (5ºC-5ºC), away from direct sunlight.

SHELF LIFE:
Shelf life of unopened containers stored in a dry facility is 24 months (2 years). Excessive temperature differential and/or high humidity can shorten the shelf-life expectancy

PREPARATION:
The substrate should be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminates must be removed prior to application. Be sure the crack is open where ports are placed. Set ports with putty.

PROPERTIES:

Mix Ratio by Volume	2:1
Viscosity	100 cps
Gel Time (60g)	>30 minutes
Tack Free Time (73ºF/23ºC)	3-5 hours
Tensile Strength	10,000 psi (67.0 MPa)
Tensile Elongation	1.2%
Bond Strength 2 Day 14 Day	2,100 psi (14.5 MPa) 2,200 psi (15.2 MPa)
Compressive Strength 7 Day	10,500 psi (72.4 MPa)
Compressive Modulus 7 Day	300,000 psi (2,070 MPa)
Shear Strength	6,000 psi (41.4 MPa)
Flexural Strength	9,000 psi (62.0 MPa)
Shrinkage	0.001 in/in/deg. F
Thermal Compatibility	Pass
Heat Deflection	123ºF (50ºC)
Absorption (24 hr.)	0.3%

MIXING:
Precondition epoxy to 65ºF-85ºF (18ºC-29ºC).
Mix 2 parts Side A Resin to 1 part Side B Hardener for 3 minutes using a “Jiffy” Mixer and a slow speed drill. Mix at slow speed (less than 850 rpm) to avoid air entrainment. Do not mix more material than can be used within the stated working time. At higher temperatures, you will have less working time.

APPLICATION:
Open and clean cracks. Set ports between 4-6 inches (10-15 cm) using **RepPoxy FSA** paste. Open all ports before beginning. Fill cracks to each port using **RepPoxy FSA** paste. Let paste cure. Using proper application methods, i.e., dual cartridges, slowly pump **RepPoxy CI** into lowest port until **RepPoxy CI** flows from next port above the first.
Close port and remove cartridge from first port and move to next port, always move UP so that all air escapes. Continue previous step until you have filled and closed all ports.

LIMITATIONS
Minimum substrate temperature is 40ºF (5ºC). Do not thin. Solvents will prevent proper cure.

CLEAN UP:
Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with **RepSolv-X**, Xylene, or other approved solvent. Cured material can only be removed mechanically.

WARRANTY*:*
Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

DISCLAIMER:
Refer to the SDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of **TuffTex Materials, Inc**. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local **TuffTex Materials, Inc.** distributor or technical representative for additional technical data and instructions.