



FX

LOW VISCOSITY CONCRETE REPAIR

FX is a rapid set, high strength ultra low viscosity Urethane repair material. This two part, 1:1 system is 100% solids and designed for rebuilding and repairing broken control joints and spalled concrete surfaces very quickly. FX is intended for repairing damaged control joints or warehouse spalls damaged from forklifts, steel wheeled carts, etc

Applications

- Fill pin holes and small surface defects before polishing
- Rebuilding control joints
- Traffic area spalls & crack repairs
- Structural Crack Injection
- Fill & repair spall before coating
- Used to “knit” cracked slabs
- Fill voids under concrete or tile

Limitations

- Do not thin, solvents will prevent proper cure.
- Avoid exposure to moisture prior to curing
- Material is a vapor barrier after cure
- Concrete should be at least 28 days old prior to application

Advantages

- Meets USDA and FDA Requirements
- Cures From -20°F to 130°F
- “Drive-Over” in 30 minutes
- Produces High Strength Quickly
- Self priming and self leveling
- Fast initial set; rapid gain to ultimate strengths.

Physical Properties

Viscosity (mixed)	25 cps
Shore “D” Hardness (ASTM D-2240)	67 to 72D
Tensile Strength, PSI (ASTM D412)	4600
Elongation % (ASTM D-412)	6%-8%
Compressive Strength (ASTM D-695)	
Material Neat	3900 psi
Material with Sand	4800 psi

Available in

- 22 oz. Cartridges
- 1 Gallon Kits
- 2 Gallon Kits
- 10 Gallon Kits

Shelf Life

1 year in original unopened container.

Storage Conditions

Store material between 55°F and 85°F.

Consistency

Ultra Low Viscosity

Pot Life

Approx. 100 Seconds
(100 gram mass)

Appearance

Off White, Custom Color
Matching Available



Coverage Information

To calculate the amount of material required to make a repair, calculate cubic inches by multiplying the approximate length x width x height. Always remember to convert feet to inches. Add 10-15% to account for waste and overfill.

Trowelable Application Coverage

Significant Surface Damage - 200-400 sf per Gallon
Moderate Surface Damage - 500-700 sf per Gallon
Minimal Surface Damage - 800-1000 sf per Gallon

Approximate Coverage Rates

1/8" x 1" Crack - 154 lf/gal
1/4" x 1" Crack - 77 lf per gal
1/2" x 1" Crack - 39 lf per gal

Divide lf/gal by 5.8 to calculate coverage rate per cartridge

Chemical Resistance

Test Procedure; ASTM D-1308 @72°F

R=Recommend
RC=Recommend Conditional =some swelling or discoloration
N=Not Recommend
1=Some discoloration only

Chemical	Result
Acetic Acid 10 %	R
Acetone	RC
Battery Acid (Sulfuric Acid)	RC
Brake fluid	R
Chlorine (2,000 ppm in water)	R
Citric Acid	R
Gasoline	R
Hydraulic Oil	R-1
Methanol (5%) Gasoline	RC
Motor Oil	R-1
Toluene	RC
Vinegar	R
Water	R
Xylene	R

Application Recommendations

Condition material to at least 70°F before use. If need, tint should be added to "B" side container only and mixed for at least 90 seconds. For bulk use, measure equal parts "A" and "B" into two separate plastic mixing containers. Pour measured "A" and "B" separately into in a third plastic mixing container and stir for at least 20 seconds.

Application Recommendations (cont.)

Spalls/Cracks: Clean the area of debris and contaminants that would act to de-bond the FX. Expose clean, rough concrete for best results. For large spalls, cut a vertical edge, minimum 1/2" deep, around perimeter of spall. Remove all dust from the cut out area with a HEPA filtered vacuum and make sure the area to be repaired is dry. Where the crack is deep, apply product to the bottom of the crack and work up in layers: first apply product then sand into the product, then more product & sand. Repeat the steps in layers until reaching the finished grade.

Filler: Sand filler should have minimal moisture content and range in grit size from 12 to 60. Pea gravel can be used on very large spalls. Concrete dust, unsanded grout, and other cementitious materials such as underlayment or overlays can also be used when desired.

Grinding to finish grade: Allow the FX to set about 15 minutes or until hard. For best results on spall repairs use a flexible grinding wheel and grind flush. FX troweled as a pre-polish filler can be removed with transitional or low grit resin diamonds on a stand up grinder.

Disposal & Clean Up

Empty containers must be drip free. Cured product may be disposed of without restrictions. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Cured materials may be stripped or peeled from plastic tools and containers. It is recommended that metal tools be cleaned within one hour of use by cutting or peeling cured material form tool.

Safety & Handling

SDS will be mailed immediately upon receipt of a purchase order or upon request. All personnel should read and understand product Safety Data Sheets provided. Long sleeved overall or disposable overalls, rubber gloves, splash shields, rubber or leather boots should be worn. Do not use near high heat or open flame. Do not take internally. Keep out of the reach of children.

Warranty

HI-TECH warrants its products to be free of manufacturing defects will meet HI-TECH's current published physical properties when applied in accordance with HI-TECH's directions and tested in accordance with ASTM and HI-TECH's standards. There are no other warranties by HI-TECH of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HI-TECH Corporation shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.



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