TECHNICAL DATA SHEET

TX-3

REPAIR MATERIAL

TX-3 is a rapid set, high strength low viscosity urethane repair material. This two part, 1:1 system is 100% solids and designed for rebuilding and repairing broken control joints, filling voids under tile and concrete, and repairing spalled concrete surfaces very quickly. TX-3 is intended for use in damaged control joints or warehouse spall damage created by forklifts or carts with steel or hard urethane wheels.

APPLICATIONS

TX-3 has an extended pot life for larger repairs requiring more working time.

- Rebuilding control joints
- Traffic area spalls & crack repairs
- Grade matching
- Floor repair
- Fill & repair spall before coating
- Used to "knit" cracked slabs
- Fill voids under concrete or tile

ADVANTAGES

- Cures From -20ºF to 130ºF
- Drive-Over in 45 minutes
- Produces High Strength Quickly
- Self-priming and self-leveling
- Can be mixed with dry aggregate
- Meets USDA and FDA Requirements
- Meets the United States Green Builidng Council's
- LEED® standards for IEQ Credit 4.1

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

PHYSICAL PROPERTIES

Viscosity (mixed)	250 cps
Shore "D" Hardness (ASTM D-2240)	67 to 72D
Mix Ratio (by volume)	1:1
Elongation % (ASTM D-412)	4%
Compressive Strength (ASTM D-695)	
Material Neat	6240 psi
Material with Sand	5940 psi
Adhesion (ASTM D72324-12)	235 psi

Available in
22 oz Cartridges
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
Low Viscosity

Pot Life
Approx. 100 seconds (100 gram mass)

Appearance
Off-white
Custom Color Matching Available

TX-3 REPAIR MATERIAL

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/gal
1/2" x 1" Crack - 39 lf/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 neeed, 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.

Spalls/Cracks: Clean the area of debris and contaminants that would act to de-bond the TX-3. Expose clean, rough concrete for best results. For large spalls, cut a vertical edge, minimum 1/4" 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 TX-3 to set about 45 minutes or until hard. For best results on spall repairs use a flexible grinding wheel and grind flush. TX-3 troweled as a pre-polish filler can be removed with trasitional 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

All personnel should read and un-derstand 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

HTS products are free of manufacturing defects. When applied in accordance with HTS'S directions and tested in compliance with ASTM and HTS's standards, CD-HS will meet current published physical properties. There are no other warranties by HTS of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HTS 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. This includes any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.

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