



TECHNICAL DATA SHEET

TX-UV ALIPHATIC REPAIR MATERIAL

TX-UV is a fully UV stable, moisture tolerant, high strength self-leveling Aliphatic polyurethane repair material. A two part, 1:1 high solids system designed for concrete grouting, rebuilding damaged control joints, or repairing cracks and spalls in areas where UV exposure is a concern. Being completely UV stable, TX-UV is ideal for use on interior or exterior terrazzo and concrete floors where high levels of UV exposure is present. It will not amber or color shift in direct sunlight or intense interior lighting.

TX-UV has a much longer pot life than standard aromatic repair urethanes when mixed in large quantities allowing for more working time on large projects. With up to a 15 minute pot life in the mixing container, it still cures quickly in a thin grout coat application with typical grind ready time of just 30 minutes. Large repairs with greater depth may take anywhere from 90-180 minutes to be ready for foot traffic and 6-8 hours for heavy fork truck traffic.

Applications:

- Terrazzo and concrete grouting
- Concrete crack repair
- Rebuilding floor joints
- Spall Repair
- Bolt hole repair
- Grade Matching
- Exterior concrete repair

Advantages:

- Fully UV stable and offered in over 400 colors
- Moisture tolerant
- Grind ready in 30 minutes when utilized in thin grout coat application
- Self-priming and self-leveling
- Meets USDA and FDA Requirements
- Can be mixed with dry sands/aggregates/crements to make UV stable polishable repairs and extend material coverage rates

Limitations:

- Let concrete cure for a minimum of 28 days prior to application
- Do not thin, solvents will prevent proper cure
- Do not use below 32 degrees Fahrenheit
- Noticeable odor when applying and grinding. Use in well ventilated space with proper PPE

Physical Properties:

Mix Ratio (by volume)	1:1
Viscosity(mixed)	600 CPS +/- 100
Shore "D" ASTM D2240	65-67
Tensile Strength, ASTM D412	3500-3800 PSI
Gel Time at 75F ASTM D2472	15 minutes
Total Solids by Weight	95% +/- 2%
VOC Mixed: ASTM D2369.	81.50 gram/liter

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. 15 minutes

Appearance

Off-white
Custom Color Matching
Available

TX-UV

ALIPHATIC 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 – 150-250 sf per Gallon

Moderate Surface Damage – 250-450 sf per Gallon

Minimal Surface Damage – 450-600 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

Acetic Acid 10 %

Acetone

Battery Acid (Sulfuric Acid)

Brake fluid

Chlorine (2,000 ppm in water)

Citric Acid

Gasoline

Hydraulic Oil

Methanol (5%) Gasoline

Motor Oil

Toluene

Vinegar

Water

Xylene

Result

R

RC

RC

R

R

R

R

R

R-1

RC

R-1

RC

R

R

R

R

APPLICATION RECOMMENDATIONS

Condition material to at least 70°F before use. If needed, 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 a third plastic mixing container and stir for at least 45 seconds.

Spalls/Cracks: Clean the area of debris and contaminants that would act to de-bond the TX-UV. 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-UV to set about 30 minutes in thin grout applications and 90-180 minutes in large spall/joint/trench repair applications. For best results on spall repairs use a flexible grinding wheel and grind flush. TXUV 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 from tool.

SAFETY & HANDLING

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

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.