

HI-TECH Systems

SPALL TX Gel Rapid Cure Spall & Crack Repair

Product Description:

HT Spall TX Gel is a rapid set, high strength concrete repair material that quickly gels upon dispensation from the cartridge system. This two part, 1:1 system is 100% solids and designed for capping cracks before injection, rebuilding and repairing broken control joints, repairing spalls in concrete floors damaged from forklifts, steel wheeled carts, racking bolts, etc...

Applications:

- ✓ Rebuilding control joints
- ✓ Shallow spalls on bridge decks
- ✓ Traffic area spalls & crack repairs
- ✓ Grade matching
- ✓ Floor repair
- ✓ Stops additional damage
- ✓ Fill & repair spall before coating

Advantages:

- ✓ 100% Solids, No VOC's
- ✓ Meets USDA and FDA Requirements
- ✓ Meets USGBC LEED Criteria – IEQ4.1
- ✓ Cures from -20° F to 130° F.
- ✓ "Drive-Over" in 30 minutes
- ✓ Produces High Strength Quickly
- ✓ Self Priming
- ✓ Fast initial set; rapid gain to ultimate strengths.
- ✓ Custom Colors Available

Physical Properties:

Viscosity (Mixed)	Non Sag
Hardness, durometer (ASTM D2240)	67 to 76D
Tensile Strength, PSI (ASTM D412)	5000
Elongation % (ASTM D412)	11%
Compressive Strength ASTM D695(neat)	3500 psi
Bond Strength (ASTM 882-99)	3450 psi

Available In:

22 oz. Cartridges
7 Gallon kit (used with Hi-Tech SB2005/2009 pump)
10Gallon kit (used with Hi-Tech SB2005/2009 pump)

Concrete Application Recommendations:

Clean the area of debris and contaminants that would act to de-bond the *HT Spall TX Gel*; oils, loose materials, dirt, rubber etc. Expose clean rough concrete for best results. If using a saw to cut concrete and clean the crack, remove all the dust from the cut out area. Cut a vertical edge, minimum ½" deep, around perimeter of spall. Spall TX Gel is slightly moisture sensitive, and should not be applied to wet surfaces. Vacuum or blow off cement dust. Once material has been dispensed onto the substrate, it may be troweled and manipulated for 2-3 minutes. Mixed material that sits in the nozzle for more than 20 seconds will become too thick to pump, necessitating a new nozzle. A thin coat of Isopropyl on a steel trowel will improve the ability of the Spall TX Gel to be troweled. The material may be ground flush with the substrate or troweled flush and left as is. Material will be traffic ready in 30-60 minutes and reach its full hardness in approximately 4 hours.

Grinding to finish grade:

Allow the *HT Spall TX Gel* to cure for 30-60 minutes or until hard. For best results use a flexible grinding wheel. Grind smooth with a 7-inch wheel. Repair is now ready for traffic.

Filler:

Because of the thickness of the Spall TX Gel, after it has mixed, it is not recommended to mix sand, cement or any other filler in with the material.

Shelf Life:

1 year in original unopened container.

Storage Conditions:

Store between 75°F to 85°F. Do not store below 45°F or above 85°F.

Pot Life:

C-881 77° - 100 Grams
Approx. 15-20 seconds in nozzle
2-3 minutes after applied to substrate

Coverage Information:

22 oz. cartridge = 39 cubic inches.

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

<u>Chemical</u>	<u>Result</u>
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

Safety:

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

Disposal And 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.

Warranty:

HI-TECH warrants its products to be free of manufacturing defects and that they 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.