DATA SHEET 03/22/2018

HT SPALL-TX2

Rapid Cure Spall & Crack Repair

Product Description:

HT Spall-TX2 is a rapid set, high strength low viscosity concrete 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, as well as filling voids. *HT Spall-TX2* is intended for use in damaged control joints, voids under concrete or tile, and warehouse spalls damaged from forklifts, steel wheeled carts, etc… *HT Spall-TX2* has an extended pot life for larger jobs requiring more time.

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
- Used to "knit" cracked slabs
- Fill voids under concrete or tile

Advantages:

- 100% Solids
- Meets USDA and FDA Requirements
- Meets the USGBC's LEED® requirement of IEQ Credit 4.1
- Cures from -20° F to 130° F.
- "Drive-Over" in 20 to 30 minutes
- Produces High Strength Quickly
- Self-leveling
- Self Priming
- Fast initial set; rapid gain to ultimate strengths.

Physical Properties:

Viscosity (Mixed)	250 cps
Hardness, durometer (ASTM D2240)	67 to 72D
Tensile Strength, PSI (ASTM D412)	4600
Elongation % (ASTM D412-15a)	6% to 8%
Compressive Strength (neat)	3900 psi
(ASTM D695-15) (with sand)	4800 psi
Bond Strength (ASTM 882-99)	3450 psi

Concrete Application Recommendations:

Clean the area of debris and contaminants that would act to de-bond the *HT Spall-TX2*; 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. Make sure the area is dry. Vacuum or blow off cement dust.

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. Grit sizes from 12 to 60. In exterior applications, the use of dry silica sand will reduce discoloration from UV Rays. Pea gravel can be used on very large spalls. *HT Spall-TX2* can be used to bond damaged slabs together. Not intended for use where substrate movement is required. ***HT Spall-TX2 is slightly moisture sensitive and should not be applied to very wet surfaces.***

Grinding to finish grade: Allow the *HT Spall-TX2* to set about 20 minutes or until hard. For best results use a flexible grinding wheel. Grind smooth with a 7-inch wheel. Scraping or cutting may also be done with a sharp razor blade cutter. Cut as soon as product is set and not completely hard. Repair is now ready for traffic.

Shelf Life: 1 year in original unopened container.

Storage Conditions: Recommended storage temperature is between 75°F to 95°F. Do not store below 45°F.

Pot Life: 74°F - 100 Grams
Approx. 3 minutes average

Available In:

22 oz. Cartridges
1, 2, 7 & 10 Gallon Kits

HI-TECH Systems: 1190 N. Del Rio Pl., Ontario, CA 91764 800-454-5530 / Fax 909-945-3009

Coverage Information – 22 oz. Cartridge:

Must consider waste. For random cracks, guesstimate the average size. Crack depth is unknown causing more or less use of the product. For bulk repairs, calculate the cubic inches required. 1 gallon = 231 cubic inches. 1 part sand to 1 part product typically doubles the amount.

22 oz. Cartridge Coverage Rate:

Width	¼"	½"	¾"	1"	1-1/4"	1-1/2"
¼"	52.9					
½"	26.5	13.2				
¾"	17.6	8.8	5.9			
1"	13.2	6.6	4.4	3.3		
1 ¼"	10.6	5.3	3.5	2.6	2.1	
1 ½"	8.8	4.4	2.9	2.2	1.8	1.5
1 ¾"	7.6	3.8	2.5	1.9	1.5	1.2
2"	6.6	3.3	2.2	1.6	1.3	1.1
2 ½"	5.3	2.6	1.8	1.3	1.1	.87
3"	4.4	2.2	1.5	1.1	.87	.73

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

Safety:

SDS are included with shipments and are available on the company website. Product labels include all safety warnings. All personnel should read and understand the Safety Data Sheets.

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 form 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.