



## TX GEL

RAPID CURE SPALL & CRACK REPAIR

TX Gel is a rapid set, high strength concrete repair material that quickly gels when mixed together or when dispensed from a cartridge or two component pump system. This two part, 1:1 system is 100% solids and designed for capping vertical cracks before injection, rebuilding broken control joints, and repairing spall damage in concrete floors cause by forklifts or carts with steel or hard urethane wheels.

### Applications

- Capping vertical cracks before injection
- Repairing spalled parking decks
- High traffic area crack repairs
- Rebuilding control joints
- Grade matching
- Used to "knit" cracked

### Limitations

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

### Advantages

- 100% Solids
- No VOC
- Cures from -20 F to 130 F.
- "Drive-Over" in 30 minutes
- Self Priming
- Fast initial set; rapid gain to ultimate strengths.

### Physical Properties

|                                   |             |
|-----------------------------------|-------------|
| Viscosity (mixed)                 | Non sag     |
| Shore "D" Hardness (ASTM D-2240)  | 67 to 76D   |
| Tensil Strength, PSI (ASTM D412)  | 5000        |
| Pot Life 100 grams at 74°F        | 180 Seconds |
| Elongation % (ASTM D-412)         | 11%         |
| Compressive Strength (ASTM D-695) |             |
| Material Neat                     | 3000 psi    |
| Bond Strength (ASTM 882-99)       | 3450 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

Non sag Material

### Pot Life

Approx. 15-20 seconds in nozzle, 120-180 seconds once applied to substrate

### Appearance

Off White, Custom Color Matching Available



## Coverage Information

For random cracks, estimate the average size and calculate material needed. For bulk repairs, calculate the cubic inches required.

22oz cartridge = 39 cubic inches.

To calculate the amount of material required to make a repair, calculate cubic inches by multiplying the approximate length x width x height of the crack to be filled. Always remember to convert feet to inches. For example a 3" x 3" x 1/2" spall would be 4.5 cubic inches and there are 231 cubic inches per gallon. Add 10-15% to account for waste and overfill.

## 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 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 20 seconds.

## Application Recommendations (cont.)

Clean the area of debris and contaminants that would act to de-bond TX Gel such as 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. Make sure the area is dry. Vacuum or blow off cement dust. TX Gel is slightly moisture sensitive and should not be applied to very wet surfaces. Once material has been dispensed into the substrate it may be troweled and manipulated for approximately 2-3 minutes. Material being dispensed through a cartridge or pump nozzle should not sit for more than 20 seconds as material will become too thick to pump, requiring a new nozzle. A thin coat of Isopropyl alcohol on a steel trowel will improve the ability of TX Gel to be troweled. Material will be traffic ready in 30-60 minutes and reach its full hardness in approximately 4 hours. Once cured, any overfill may be ground flush with the substrate with a flexible grinding wheel or, if troweled flush with the substrate, left as is.

## Disposal & Clean Up

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

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.

