



## SURFACE PREPARATION PRODUCTS

# SCT-22

## FAST DRYING CRACK AND SPALL REPAIR



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# SCT-22

## URETHANE CRACK TREATMENT

### DESCRIPTION

**SCT-22™** is a rapid set, technologically advanced, high strength, ultra-low viscosity urethane treatment material. This 2-part, 1:1 system is 100% solids, no VOC's and designed for rebuilding spalls and treating static cracks in concrete very quickly. **SCT-22** may be used prior to the application of an overlay for concrete that has random cracking or as a stand-alone treatment for spalled and damaged concrete. Its rapid set time makes **SCT-22** the premier restoration product for industrial warehouse floors that have traffic area spalls and construction joint damage. A ten to fifteen minute period is all that is required for "drive-over" time. **SCT-22** is self-leveling, self-priming, and meets USDA and FDA requirements.

### TEMPERATURE/CURE

Apply with ambient and surface temperatures ranging between -20°F (-29°C) to 130°F (54°C). Colder temperatures will slow cure. At 75°F (24°C) ready for traffic in 10 – 15 minutes.

### EVALUATE/SET EXPECTATION

Establish if crack to be treated is structural or static.

- **Structural cracks**
  - o Likely larger than 1/8" in width
  - o May be "spitting" aggregate
  - o Travel full length of slab
  - o Travel from control joint to control joint
  - o Backer rod or sand may be used to partially fill large deep cracks.
  - o Treatment will minimize return of crack in overlay
- **Static Cracks**
  - o Less than 1/8" in width
  - o Do not travel full length of slab
  - o Do not travel from control joint to control joint
  - o Treatment likely to be successful

Large spalls or voids in slab, especially those that are full depth of concrete will likely have a structural crack at perimeter. Damp or wet cracks cannot be treated.

### CRACK TREATMENT

#### Cleaning

Clean area of debris and contaminants that would act to break the bond of SCT-22 to concrete (i.e. oil, loose materials, rubber, dirt, etc.) Do not apply to wet surfaces.

#### Crack Chasing

1. With 4" hand-held electric grinder equipped with a flat diamond "turbo" blade grind the full length of the existing crack to a minimum depth of 3/4" (10 cm).
2. Be certain to engage the blade to the full depth of diamonds.



### PACKAGING

- 1 Kit containing:
- 1 - 22 oz. (0.6 L) dual cartridge
  - 1 - Static Auger Mixing Tip
  - 1 - Flow Restrictor

Note: extra flow restrictors and auger tips are available in packages of 10

### COVERAGE

1 – 22 oz. (.6 liter) dual cartridge = 1/4" wide X 3/4" deep X 17' long crack OR 6.35 mm wide X 19 mm deep X 5.2 meters long crack (no sand)

### PHYSICAL PROPERTIES

**Hardness:** ASTM D2240 = 67 –72 Durometer  
**Tensile Strength:** ASTM D412 = 4600 psi (31715 kPa)  
**Elongation:** ASTM D412= 6–8%  
**Compressive Strength:** ASTM C10 =  
4800 psi (33095 kPa) - with sand  
3900 psi (26890 kPa) - neat  
**Bond Strength:** ASTM 882-99 = 3450 psi (23787 kPa)  
**Pot Life:** Approx. 3 mins.

### SHELF LIFE

Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened container is (12) months from the date of purchase. Storage must be under roof and off the floor. Avoid temperature extremes. Rotate inventory to maintain product that is within limit. Partially used cartridges may be stored for reuse (within approximately 30 days.) Hold cartridge horizontally over waste receptor and unscrew static auger tip and remove flow restrictor. Point cartridge up and replace cap. Flow restrictor may be reused if both ports are clear, however auger tip must be disposed of.

3. Remove dust from the crack with brush and forced air (leaf blower or air compressor) or vacuum.

Following crack chasing, prior to application of any product, fill the dressed crack with clean, dry sand (grit size: 12–60) flush with the surface.

#### Cartridge Prep

- Shake the cartridge thoroughly for at least 30 seconds.
- Remove cap and install flow restrictor on top of ports.
- Screw static auger tip in place.
- Insert assembled dual cartridge into "gun".
- With tip pointed up, gently squeeze the gun's trigger to bleed off air in the dual cartridge and have material flow into tip.
- Point the tip down over waste receptor and squeeze out a small amount of material to observe proper mixing in auger tip, observe uniformity of color (goes darker). [Note: do not tilt gun back up so that catalyzed material can flow from auger tip back into dual cartridge. This will cook the cartridge].

**Application**

1. Dispense product with constant even pressure and completely saturate the sand and fill completely with SCT-22.
2. Saturated sand may be manipulated into place with a margin trowel or putty knife as required.
3. Additional sand may be "seeded" into product before curing to increase bonding capacity of subsequent overlay.
4. Allow product to set (approximately 15 mins.) Scrape with a sharp blade the excess material for disposal. Or alternatively use a handheld grinder equipped with an abrasive wheel designed to grind concrete to clear excess material flush with slab.

**Scratch Coat (Crack Treatment)**

Following the treatment of the crack, just prior to the installation of an overlay (if used), a scratch coat must be installed over the treated crack.

- Allow **SCT-22** to set and no longer be tacky (approximately 15 mins.).
- Dampen the slab area adjacent to both sides of the treated crack.
- Trowel a tight coat of **SureBroom** (see TDS) across the full length of the crack.
- Total width of the scratch coat should be approximately 12" (30 cm).
- Carefully feather the edge of the troweled material with trowel or damp sponge to leave no ridges.

**SPALLS/LARGE REPAIRS**

All of the above referenced directions apply by principle.

**Cleaning**

Clean area of debris and contaminants that would act to break the bond of **SCT-22** to concrete (i.e. oil, loose materials, rubber, dirt, etc.) Expose clean rough concrete for best results in spall restoration. Do not apply to wet surfaces.

**Saw Cutting**

Although not required, damaged areas may be saw cut to create a neater patch. Utilize a diamond blade to cut perimeter of patch to a minimum depth of 3/4" (10 cm).

Following saw-cutting, prior to application of any product, fill the dressed area with clean, dry sand (grit size: 12—60) flush with the surface. Spalls deeper than 2" (5 cm) may utilize pea gravel combined with sand.

**Cartridge Prep**

Remains the same, see above description.

**Application**

1. Dispense product with constant even pressure and completely saturate the sand/pea gravel and fill completely with **SCT-22**.
2. Multiple lifts of sand/pea gravel and **SCT-22** may be required for extremely large spalls.
3. Allow product to set (approximately 15 mins.) Scrape with a sharp blade the excess material for disposal. Or alternatively use a handheld grinder equipped with a "Zek" blade to clear excess material flush with slab.

**Scratch Coat (Spalls/Large Repairs)**

Following the treatment, just prior to the installation of an overlay (if used), a scratch coat must be installed over the treated area.

- Allow **SCT-22** to set and no longer be tacky (approximately 15 mins.).
- Dampen the slab area adjacent to the treated area.
- Trowel a tight coat of **SureBroom** (see TDS) across the entire treated area. Scratch coat should extend onto sound concrete for approximately 2" (5 cm) around the perimeter of treated area.
- Carefully feather the edge of the troweled material with trowel or damp sponge to leave no ridges.

**CLEAN-UP**

Before **SCT-22** dries; spills and tools can be cleaned up with a solvent such as xylene or acetone.

**DISPOSAL**

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

**LIMITATIONS**

Damp or wet cracks or spalls cannot be treated. Structural cracks are likely to recur. For use by trained professionals that have read the complete SDS.

**WARRANTY**

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

**CAUTIONS**

**KEEP OUT OF REACH OF CHILDREN. Inhalation:** Avoid prolonged breathing of product. Use NIOSH approved respirator if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

**SAFETY DATA SHEETS**

The following are links to all available safety data sheets related to this product:

- <http://www.surecretedesign.com/sds/surface-prep-sct-22-a-sds.pdf>
- <http://www.surecretedesign.com/sds/surface-prep-sct-22-b-sds.pdf>