

## Technical Data

### COVERAGE (approx.)

Base 175 ft.<sup>2</sup> (16.25 m<sup>2</sup>)  
Finish 150 ft.<sup>2</sup> (13.94 m<sup>2</sup>)

### TECHNICAL DATA

#### COMPRESSIVE STRENGTH

- ASTM C-109 28 day 4250 PSI (29302 kPa)

#### ABRASION RESISTANCE

- 28 days %loss –500 cycles – <.40%

#### TENSILE STRENGTH

- ASTM C-190 28 day 430 PSI (2964 kPa)

#### FLEXURAL STRENGTH

- ASTM C-348 28 day 980 PSI (6757 kPa)

#### MOSAIC SHEAR

- ANSI A 118.4 28 day 275 PSI (1896 kPa)

Density – 126.10 lbs./cu. ft. (2018 kg /m<sup>3</sup>)

### Shelf Life

Under normal conditions and when kept out of direct sunlight, dry and moisture free, the shelf life of **this product (in a unopened package)** is **(12) months** from the date of purchase. Storage must be under roof and off the floor. Inventory **must be rotated** to maintain product that is within shelf life limits.

### Warranty

Generally, SureCrete represents and warrants that our products are of **consistent quality**. No other oral or written statement is authorized. Any liability is limited to refund of purchase price, or replacement of product **(if defective)** at manufactures/ sellers option. The **end user** shall determine product's suitability and assume all risks and liability. SureCrete shall not be liable for cost of labor or direct and/or incidental consequential damages.

### DESCRIPTION

**SureSpray** is a trowel able or squeegee applied (base coat) and hopper gun / compressed air applied (finish coat) cementitious topping for texturing both interior and exterior concrete surfaces. Typical areas include pool decks, patios, walkways, and driveways.

**SureSpray** is formulated to provide excellent bonding to new, as well as existing concrete surfaces. **SureSpray** comes in “white only mix” and color packs can be added. This product also comes in both a Summer Mix and a Winter Mix (less retarder).

### SURFACE PREPARATION

The principles for surface preparation for overlays on concrete or other cementitious surfaces remain constant; the substrate must be: **(under most installation situations)\*:**

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew & other foreign matter that may serve as a bond breaker or prevent proper adhesion. To remove coatings, paint, sealers, glue from concrete, etc. you can either accomplish this thru chemical (listed below) or mechanical means!

**(See Tech Sheets) SCR: Enviro Strip: Glue Remove: Fast Strip Plus**

2. **Cured:** Any cement based surface must be sufficiently cured to have completed hydration: somewhere between 14-28 days depending on temperatures & humidity.
3. **Sound:** No overlay should be placed on flaking or spalling concrete. If the surface is delaminating, or divots are present, then shot blasting, scarifying, or other prepping methods should be used to remove the delaminating areas & then patched.& or **densified!** Cracks will telegraph thru overlays& need to be properly addressed! Also some slabs present special challenges: hydrostatic pressure, efflorescence, dusting, or other contaminants in the matrix. As added insurance, we recommend **LD-1800**.

**(See Tech Sheets) LD-1800: Flash Patch: Deep Level: SureBroom: SCT-22:**

**2 Part- Epoxy crack treatment**

4. **Profiled:** For a proper bond with overlays, the surface of concrete must be opened up (etched) roughed up to feel like sandpaper. This profile may be accomplished by **mechanical means:** shot blasting, scarifying, grinding, power washing etc. For most applications, the most common means of **profiling, cleaning & degreasing** for an all in one product and a safe substitute for muriatic acid is **SCR**.

**(See Tech Sheet) SCR**

\* **(See Tech Sheet) SurePrime:** Enhanced bonding primer

### Temperature Ranges & Curing

Installations **should only take place** when air & substrate surface temperatures are between **45° F & 90° F (7-32° C)** If air temperature is expected to **drop below 45° F (7° C)** within 48 hours after placement, then installation is **not recommended!**

Allow product to air cure after application. Care should be taken when weather conditions impart variables that cause the product to dry out to quickly. High heat, sunlight and especially windy conditions, may be detrimental to the proper curing of this product. Attempt to minimize application during such harsh conditions by working during cooler hours, keeping materials shaded prior to mixing and setting up plastic or temporary walls to block wind. **This product (depending on weather conditions)** normally should achieve

initial set with-in 8 hours. After sealing allow approximately (24) hours for **foot traffic** & approximately (72) hrs. for **heavy/ vehicle traffic**.

## **APPLICATION**

**\* Pre-Mix Coloring Note: When using color packs, always mix them with the water, before mixing water with this product**

### **Base Coat:**

If base coat is to be troweled or squeegeed, begin by saturating area to be covered with water. Before application of base coat, remove any excess water leaving no puddles. The surface should be saturated, surface dry (SSD). If base coat is to be sprayed with compressor and texture gun, do not wet surface.

1. Mix water at the rate of approximately 5 to 6.5 qts. to 1 - 50 lb. bag of **SureSpray**. Mechanically mix to a lump-free, flow-able consistency.
2. Place the base coat with a squeegee or spray from hopper gun at 40 psi through a relatively small orifice, 19/64" (Marshalltown = 4<sup>th</sup> from smallest). When using a squeegee exercise care to keep surface smooth and free of trowel tracks. When using a hopper gun, be certain to maintain 100% coverage of host surface.
3. After base coat has dried, scrape away any loose material and sweep and use leaf blower to clear surface. Any trowel tracks or ridges must be smoothed with a rubbing stone, grinder, scraper, etc. to prevent them from telegraphing into the finish coat. Tape or stencil patterns may be applied.

**NOTE:** The base coat may be integrally tinted to provide a contrast with finish coat that creates detailed, or intricate grout lines in finished product.

### **Finish Coat:**

1. Mix water at the rate of approximately 4 ½ to 6 ½ qts. to 1 - 50 lb. bag of SureSpray. Mechanically mix to a lump-free, flow-able consistency. The finish coat may be integrally colored. Use a hopper gun for this application.

**Knockdown texture** use 8-15 psi through a relatively large orifice, 7/16" (Marshalltown = 2nd largest). Coverage should be approximately 75-80% of bond coat below. As the wet, glossy material begins to dry to a matte or dull appearance, it should be knocked down with a pool trowel or metal squeegee. Metal spikes should be worn, exercising care not to damage the finish coat.

**Bubble texture** use 40 psi through a relatively small orifice, 19/64" (Marshalltown = 4<sup>th</sup> from smallest). Coverage should again be 100% or very consistent coverage of base coat. Subsequent highlighting or accent coats can be at any rate desired.

2. As soon as finish coat is dry to the touch and can bear sock foot traffic, pull stencil or tape lines.
3. The finish product needs 2 coats of SureCrete sealer that may be pigmented or clear, water or solvent base.