

## Commercial Grade Concrete Stamp Overlay

### Technical Data

#### COVERAGE (approx.)

- 1 - 50 lb. bag of SureStamp
- 15-18 sq. ft. @ 3/8"
- 20-24 sq. ft. @ 1/4"

#### TECHNICAL DATA

##### COMPRESSIVE STRENGTH

- ASTM C-109
- 7 day 3580 PSI
- 28 day 4350 PSI

##### FLEXURAL STRENGTH

- ASTM C-78
- 9 day 880.7 PSI
- 28 day 1494.3 PSI

##### T-BAR ADHESION (DUROCK)

- 7 day 137.1 PSI
- 28 day 190.3 PSI

#### 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 manufacturers/ 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

**SureStamp** is a stampable cementitious topping for beautifying both interior and exterior concrete surfaces. SureStamp can eliminate the need for a tear-out and replacement of existing concrete for a stamped concrete look (No heavy equipment and major renovation to the customers property).

When stamped, it creates a texture that can resemble a whole array of stamp designs: tile, cut stone, slate, brick, cobblestone, etc. **SureStamp** offers restoration, repair, resurfacing, architectural accenting, and surface protection of existing concrete. SureStamp is packaged in a white mix (can add color packs), and is available in both *Summer* and *Winter* mixes (Winter = less retarder).

#### CHEMICAL MAKEUP

**SureStamp** imparts additives, which enhance the cement in the system. Special copolymers create adhesion and flexibility essential in a thin topping. Our use of high performance admixtures increase strength, reduce permeability and shrinkage by combining with calcium hydroxide produced during hydration of the cement. The admixtures also help improve chemical resistance, reduce efflorescence and alkali-silica reactions.

#### 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**

**NOTE:** When using Color Packs, always , mix them with the water before mixing the water with SureBond or SureStamp.

### **Bond Coat:**

1. Begin by saturating area to be covered with water. Before application of bond coat, remove any excess water leaving no puddles. The surface should be saturated, surface dry (SSD).
2. Mix water at the rate of 7 – 7 ½ qts. water to a 50 lb. bag of **SureBond**. Mechanically mix for no more than 3 minutes to a lump-free consistency.
3. Place the bond coat with a squeegee and force into surface completely covering existing concrete with this slurry.

**NOTE:** Apply **SureBond** only in sections that may be covered with stamp mix while maintaining a wet edge.

### **Stamp Coat:**

1. While the bond coat is still wet apply stamp coat. Mix water at the rate of 3 ½ qts. - 1 gal. to a 50 lb. bag of **SureStamp** and add color pack to integrally tint. Mechanically mix to a lump-free consistency.
2. Use a gauge rake to apply stamp coat at ¼" - ⅜", then steel squeegee, Fresno, or steel trowel smooth and slick.

**NOTE:** Use **Surface Delay** in hot &/or windy conditions to slow initial evaporation of surface. Allow stamp coat to set until material does not stick easily to the finger when touched, but yields to pressure.

3. Apply **SureRelease** liquid to stamp tools and material to be stamped. **SureRelease** can evaporate from surface; only apply an amount that may be stamped within several minutes, especially on hot sunny days.
4. The stamp coat can be stamped with regular concrete stamping tools as is customarily done.

### **Highlighting and Sealing:**

1. The following day after cleaning up double stamp lines and excess material, the accenting of the stamp coat may be accomplished through Eco-Stain, chemical (Acid) stain or liquid highlighting.
2. The finish product needs (2) coats of SureCrete's Clear sealer, water or solvent base.
3. For additional slip resistance, utilize SureCrete SureGrip product line.

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