

Technical Data

COVERAGE (approx.)

1 – 50 lb. bag of **SureBroom**
= 90 sq. ft. @ 1/16" thickness @ 2 coats broomed thin.

TECHNICAL DATA

COMPRESSIVE STRENGTH

ASTM C-109

- 7 day 3750 PSI
- 28 day 6100 PSI

ABRASION RESISTANCE

ASTM C-944

- 1 day 1 grams lost
- 7 day 1 grams lost

TENSILE STRENGTH

ASTM C-190

- 1 day 280 PSI
- 7 day 560 PSI
- 28 day 890 PSI

FLEXURAL STRENGTH

ASTM C-78

- 7 day 850 PSI
- 28 day 1500 PSI

SHEAR BOND

ASTM C-882 Modified

- 7 day 1100 PSI
- 28 day 1650 PSI

Mortar scrubbed into substrate

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.

DESCRIPTION

SureBroom is a trowel-able or squeegee applied cementitious topping for leveling and retexturing both interior and exterior concrete surfaces. When broomed, it creates a texture that resembles freshly poured and broomed concrete. SureBroom is packaged in both a white mix (can add color packs) and a gray mix.

USES

Typical areas include high rise parking decks, driveways, sidewalks, parking lots or any horizontal concrete surface requiring repair of spalled areas, low spots, etc. **SureBroom** is applied with a base coat using squeegees, then broomed. A finish coat is applied and broomed creating a slip resistant finish that is ready to be sealed to protect against staining. **SureBroom** is suitable for heavily trafficked commercial projects. As an alternative, after base coating, it can be sprayed with a hopper gun & compressor to create a heavy bubble, non-slip surface.

CHEMICAL MAKEUP

SureBroom imparts additives, which enhance the cement in the system. Special polymers 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** all in one product and a safe substitute for muriatic acid is **SCR**.

See Tech Sheet: SCR

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

APPLICATION

Base Coat:

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).

1. Mix water at the rate of 6-8 qts. to 1 - 50 lb. bag of **SureBroom**. Mechanically mix to a lump-free consistency.
2. Place the base coat with a grout sprayer, brush, broom, or squeegee and force into surface completely covering existing concrete. Lightly broom to obtain profile.

NOTE: On irregular slabs requiring extensive patching, it is recommended to use **Flash Patch** and/or **Deep Level**. **SureBroom** will sag and shrink in deeper pits and voids. **SureBroom** may be installed in multiple lifts with no brooming to create a superior smooth surface. As product dries, scrape and use leaf blower to remove loose material.

Finish Coat:

1. The finish coat matches the base coat installation and mix ratios.
2. Begin by saturating the base coat with water, leaving no standing puddles, SSD.
3. Place material with steel squeegee and lightly broom. As product dries, scrape and use leaf blower to remove loose material.
4. Depending on the project, two thin coats of a SureCrete acrylic sealer maybe applied.

NOTE: For an even (single color) consistency, SureCrete's Pigmented sealers are recommended for a broomed application.

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.