COLORS AND STAINS

TECHNICAL DATA SHEET

SURESTAIN

CHEMICAL (REACTIVE ACID) STAIN



View More Info for this Product at
http://www.surecretedesign.com/acid-stain/

SureStain
Chemical (Reactive Acid) Stain

DESCRIPTION

SureStain is not a typical stain or dye. It is made from a very mild hydrochloric or phosphoric acid solution, wetting agents, and metallic ions (salts), and specially for-mulated pigments. When applied on concrete or any cementitious topping the metal-lic ions chemically react with the free alkaline in the cement forming oxides that pro-duce the color. Unlike dyes that produce an even color, ***SureStain*** produces the multi-hued, variegated, mottled look of natural stone. ***SureStains*** perform similarly to other reactive acid stains, but with very little residue at cleanup.

SURFACE PREP

The principles for surface preparation for ***SureStain*** are aligned with other coloring agents for cement-based products; the substrate must be:

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, stamp tool releases, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may prevent proper adhesion. Customarily ***SCR*** is appropriate for cleaning. Refer to the TDS for ***SCR***. Some cleaning may require other measures that should be evaluated (e.g. grinding, shot blasting).
2. **Cured:** Although ***SureStain*** may color cement based products that are not cured, final color may not be realized until 14 – 28 days.
3. **Sound:** No system should be placed on concrete or overlays that are flaking or spalling.
4. **Profiled:** Not normally required, as ***SCR*** is utilized in cleaning.

APPLICATION

General Use

Apply first coat with SP sprayer on dry surface using caution to avoid track lines from the spray pattern. A circular motion with the wand is desired. ***SureStain*** may be applied full strength or diluted with water to desired rate. The first coat may be brushed or brushed into the surface. Use color-fast, acid resistant brushes or brooms. If stain is brushed, maintain a wet edge, never allow a wet broom to drag across a dry slab, as it may leave a permanent streak or brush stroke.

Areas that may call for brushing are sloped surfaces, slabs with "bird baths," stamped concrete, and overlays. **Do not** walk on the wet surface. Footprints will appear darker than the adjacent areas. If stepped on by accident, the footprints should be brushed out immediately. Allow the first coat to dry to the touch.

Apply second coat in the same manner as the first coat, as described above. Do not brush the second coat. Allow to dry overnight.

SURECRETE DESIGN PRODUCTS

PACKAGING
1 gal (3.8 L) jug

MIXING RATIO
Varies from no water dilution to approximately 4 parts water to 1 part ***SureStain*** (4:1)

COLORS
Available in 8 standard colors

COVERAGE
Approx 200 ft² (18.6 m²) per mixed gallon (3.8 L)

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. Rotate inventory to maintain product that is within limits.

Applying Multiple Colors

Colors may be layered or alternated as desired. For crisp, distinct, and separate color changes, a score line should be utilized. Chemical stain will bleed across traditional masking. Shielding or masking at a score line will prevent the bleeding of colors as long as the stain is not puddled heavily at score lines.

Sealing

For interior applications, the most durable sealers are any of the Dura-Kote line. For exterior applications requiring "breatheabilty" ***SureSeal Acrylics*** are a suitable choice.
To apply with an airless sprayer, use a size 8/13 reversible tip and spray evenly onto the surface. Allow first coat to dry completely and apply the second coat in the same manner.
Decorative score lines that are to be grouted should be grouted between coats of sealer.
For interior applications ***SureFinish*** (see TDS) is recommended as an industrial floor finish that will act as a sacrificial coat to protect the sealer below and impart a measure of slip resistance. Provide slip resistance with ***SureGrip*** (see TDS).

Allow twenty-four (24) hours before permitting foot traffic on sealed area. Allow seventy-two (72) hours before permitting vehicle traffic on sealed area.

SLIP RESISTANCE

SureStain alone does not affect slip resistance, but the sealer selected to finish the project will influence this matter:

Two recognized US agencies have issued directives on minimum coefficient of friction, OSHA (Occupational Safety and Health Administration) and Department of Justice through the ADA (Americans with Disabilities Act). ADA is the more stringent of the two. ADA directs that accessible walkways have a minimum coefficient of friction of 0.6. Ramps have been directed to be 0.8. The applicator assumes the responsibility to meet these standards. Especially exterior surfaces or surfaces that may become wet, oily, or greasy require attention. Refer to ***SureGrip*** TDS and its accompanying coefficient of friction table.

Technical Data Sheet

SUITABILITY SAMPLE

Always prepare an adequate number of on-site test areas on the intended substrate to establish aesthetic suitability for products' intended use.

CLEAN-UP

Before ***SureStain*** dries, spills and tools can be cleaned up with water.

DISPOSAL

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

LIMITATIONS

Apply in ambient and surface temperatures above 40°F and rising and lower than 90°F. Ce-ment substitutes such as fly ash and slag will profoundly affect the color of chemical stain. The lower the cement content, the less of a reactive color will appear. For optimal performance of chemical stains on concrete, use straight portland cement with no substitutes. Slag cement can spot black when chemical stain.

If fiber is to be utilized in concrete that is to be chemically stained, use "stealth" fibers that do not stand proud of the finished floor.

Pacific Blue and *Jade* **SureStain** colors will spot black in the presence of moisture. The moisture can come from precipitation on exterior jobs, un-cured concrete, hydrostatic pressure from beneath slab, or allowing insufficient dry time prior to sealing.

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 airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance 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/colors-stains-surestain-sds.pdf