TECHNICAL DATA SHEET

SURESTAMP

View More Info for this Product at
http://www.surecretedesign.com/floor-stamp/

SureStamp

DESCRIPTION

SureStamp is a stampable cement-based topping for beautifying both interior and exterior concrete surfaces. For existing plain concrete, it creates textures that resemble a whole array of designs: tile, cut stone, slate, boardwalk, brick, cobblestone, etc. with traditional concrete stamping tools. Costly tear-out and replacement of existing concrete is eliminated. ***SureStamp*** offers restoration, repair, resurfacing, architectural accenting, and surface protection of existing concrete. ***SureBond*** (see TDS) a cement-based bonding agent, must be used in combination with ***SureStamp*** to achieve the ultimate adhesion essential in a stampable overlay. It is seasonally user-friendly, available in *Summer* and *Winter* mixes.

SURFACE PREPARATION

The principles for surface preparation for ***SureStamp*** are aligned with other cement-based overlays placed on concrete and remain constant; the substrate must be:

1. Clean: The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.

2. Cured: Any concrete must be sufficiently cured to have sufficient hydration, approximately 7 - 14 days depending on temperatures and humidity.

3. Sound: No system should be placed upon concrete or an existing cement-based overlay that is flaking, spalling, or has hibernating spalling.

4. Profiled: Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline no. 03732 for Concrete Surface Profile (CSP). The established profile is categorized as CSP-1 through CSP-4.
The most common means to properly profile many concrete slabs (especially exterior slabs) is through the use a pressure washer equipped with a turbo-tip and the use of ***SCR*** (see ***SCR*** TDS). Some concrete slabs that are hard troweled or that are not sound may require more aggressive profiling through diamond grinding or shot blasting.
Customarily profiling is not required for application over another cement- based overlay.

TEMPERATURE/CURE

1. Air and substrate surface temperatures shall remain between 50°F (10°C) and 90°F (32°C) during and within 48 hours of placement.
2. No precipitation should occur during or within 48 hours of placement. If ***SureStamp*** becomes wet prior to sealing, pigments will fade excessively and whiting will occur.
3. Avoid high heat and / or windy conditions. Attempt to minimize application during such harsh conditions. Keep materials shaded prior to mixing, running water until cool, and setting up temporary walls for wind blocks.

SURECRETE DESIGN PRODUCTS

PACKAGING
50 pound (22.7 kg) bag

MIXING RATIO
3.5 – 4 qt. (3.3 – 3.8 liter) water to 1 – 50 pound (22.7 kg) bag of ***SureStamp***
(optional) .5 pound (227 g) ***Color Pack*** – 30 standard colors (see ***Color Pack*** TDS)

COVERAGE
1 - 50 lb. (22.7 kg) bag of ***SureStamp***
15-18 ft² @ 3/8" (1.4 – 1.7 m² @ 9.5mm)
20-24 ft² @ ¼" (1.9 – 2.2 m² @ 6.35mm)

DENSITY
132 pounds/ft³ (2114 kg/m³)

COMPRESSIVE STRENGTH ASTM C-109
28 day 4350 PSI (29992 kPa)

FLEXURAL STRENGTH ASTM C-348
28 day 945 PSI (6515 kPa)

TENSILE STRENGTH ASTM C-190
28 day 440 PSI (3033 kPa)

ABRASION RESISTANCE ASTM D-4060
28 days <.55%

T-BAR ADHESION (DUROCK)
28 day 190.3 PSI (1312 kPa)

SHEAR STRENGTH ANSI 118.4
28 day 280 PSI (1930 kPa)

SHELF LIFE
Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened bag 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

4. Because ***SureStamp*** is placed so much thicker than many other cement-based overlays (¼" - 3/8" [6.35 – 9.5 mm]), interior applications and cool, shaded areas will take significantly longer to dry and cure. Even in summer months, the winter mix design should be considered for these applications.
5. This product (depending on weather conditions) should achieve initial set within 6 – 8 hours. Like concrete full cure is reached at 28 days.
6. Sealer selection for a finished ***SureStamp*** project will require different cure times:
   a. ***SureSeal*** products for exterior applications requiring vapor permeability, may be applied as soon as overnight. See specific sealer TDS.
   b. ***Dura-Kote*** products for interior applications may require longer cure times, perhaps 24 hours or more. See specific sealer TDS.

TECHNICAL DATA SHEET

APPLICATION

Patching

Upon surface preparation, some areas may require patching prior to application of ***SureStamp***. ***Flash Patch*** or ***Deep Level*** is an excellent choice as a patching product to restore concrete to a sound state. Refer to ***Flash Patch or Deep Level*** TDS.

Crack Treatment / Construction Joints

Cracks may require treatment: Refer to S***CT-22 Crack and Spall Treatment and SCT-EP Epoxy Crack Treatment*** TDS to evaluate crack as static or structural to set expectation of treatment.

Never bridge ***SureStamp*** across any joint in concrete. Construction Joints in concrete have sufficient movement to "telegraph" through ***SureStamp*** applications. Large expansive slabs should have planned appropriate flexible caulks to allow for this movement.

Mixing and handling

1. Add water, approximately 3.5 qt. (3.3 liter) to a 5 gal. (18.9 liter)
2. Add 1 - ***Color Pack*** if desired.
3. Mix with a handheld concrete mixer, such as an Eibenstock model #EHR 20R or a ½" (12.7 mm) 450 – 600 rpm drill equipped with a cage mixing blade for a minimum of 15 seconds.
4. Slowly introduce ***SureStamp*** into the pail with mixer running.
5. Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
6. Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency.
7. Additional water may be added up to 4 quarts (3.8 liters) total for 50 pound (22.7kg)

Note: a mortar mixer for larger jobs to mix multiple bags is appropriate. Maintain same quantities: 1 bag + 1 Color Pack + 3 ½ - 4 qts. (3.5 – 3.8 liters) water.

Bond Coat

1. The surface should be saturated, surface dry (SSD or damp, no puddles).
2. Pour a generous ribbon of ***SureBond*** and spread with squeegee over an area that corresponds to the area to be covered by ***SureStamp*** that was mixed.

Stamp Coat

1. While the ***SureBond*** is still wet, pour the mixed ***SureStamp*** onto surface.
2. Gauge rake the product to the appropriate height for stamp selected ¼" - 3/8" (6.35 – 9.5 mm).
3. Smooth the surface of product with a metal squeegee, pool trowel, fresno, or "magic trowel." If surface is excessively "sticky," ***Surface Delay*** (see TDS) misted ahead of the tool is appropriate.

Stamping

1. Allow product to begin to dry, yet remain plastic. The surface will lose its wet sheen and yield to the touch with very little if any sticking to finger.
2. Spray ***SureRelase Liquid*** (see TDS) from a solvent resistant pump-up sprayer onto stamping tools and onto surface to be stamped.
3. Progressively place stamps as product achieves appropriate dryness as described above and following the customary pattern of concrete stamping.

Clean-Up

1. Allow stamped area to set up sufficiently to bear very light, foot traffic. This time period may vary widely due to site conditions.
2. Cut away and detail double lines as needed.
3. Remove any latent release by washing the stamped surface with ***SCR*** diluted 4:1 (4 parts water to 1 part ***SCR***). Use a soft brush and rinse frequently with hose spray nozzle. A mop and mop bucket may be used for interior sites. Refer to ***SCR*** TDS.

Secondary coloring

Depending upon the application selected, secondary coloring will provide aesthetic appeal to a project. There are several products available:

- ***Eco-Stain*** - 30 water base stain colors. Refer to ***Eco-Stain*** TDS.
- ***Eco-Accent*** – 10 dry antiquing colors. Refer to ***Eco-Accent*** TDS.
- ***SureStain*** - 8 acid stain colors. Refer to ***SureStain*** TDS.
- ***Translucent Highlighting*** – solvent antiquing. Refer to ***Translucent Highlighting*** TDS.

(Note: Before secondary coloring, the Stamp Coat must set sufficiently to bear the foot traffic of the applicator and freshly cleaned areas must be healed and dry.)

Sealing

To complete a ***SureStamp*** project sealing is required. Exterior jobs will require the sealing with an acrylic sealer, due to its vapor permeability. Excellent choices for exterior sealer include:

- ***SureSeal HS-360*** - 30% solids, 600 g/L solvent
- ***SureSeal HS-340*** - 30% solids, 400 g/L solvent
- ***SureSeal Super 30*** - 30% solids, 600 g/L solvent
- ***SureSeal Super WB*** – 30% solids water based

Refer to the appropriate TDS for details.

For interior jobs there are more sealer choices available, as customarily vapor permeability is not a consideration. The above listed sealers will work fine as interior sealers, but other sealers with enhanced durability properties include:

- ***Dura-Kote Polyurethane Solvent Base Clear Gloss***
- ***Dura-Kote Epoxy 100***
- ***Dura-Kote Polyurethane Water Base Clear***
- ***Dura-Kote PFC 120 Hybrid Solvent Based Polyaspartic***
- ***Dura-Kote PFC 180 Hybrid Solvent Based Polyaspartic***
- ***XS-327***

Refer to the appropriate TDS for details.

SLIP RESISTANCE

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 spec. sheets on ***SureGrip (Additive)*** and its accompanying coefficient of friction table.

SUITABILITY SAMPLE

Due to condition specific sites, always prepare an adequate number of test areas. Wear protection system and aesthetic suitability for products' intended use should be included. On site sample approval is especially critical on substantial, heavy traffic situation or custom coloration.

CLEAN-UP

Before ***SureStamp*** 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

For use by trained professionals that have read the complete SDS. A completed ***SureStamp*** project requires a sealer. The sealer selected may have limitations that affect the finished system. Refer to the appropriate sealer TDS for details.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replace¬ment of product (if defective), at manufactures/seller's option. Sure-Crete 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:

- bag-mix-surestamp-sds.pdf

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