

SURESPRAY™

TECHNICAL DATA SHEET



DESCRIPTION

SureSpray™ is designed to resurface concrete surfaces without compromising color, design, or texture. SureSpray is a proprietary, single-component, self-bonding, white Portland cementitious overlayment. SureSpray can transform old, spalled, or worn-down concrete by eliminating surface defects, increasing wearability and coefficient of friction (COF).

SureSpray is the most versatile single-component overlay on the market, due to its ability to create the largest variety of textures and designs:

- Euro-Texture (Slop Trowel)
- Stipple (Bubble Finish)
- Wet Bubble (Orange Peel)
- Knockdown
- Wood Grain
- Travertine
- Stencil Patterns
- Tape Patterns

SureSpray is formulated and optimized using special copolymers to create superior adhesion and flexibility in both exterior and interior applications. These applications include: restoration, repair, resurfacing, architectural accenting, surface protection, and creating slip resistance. Typical venues for these applications include areas such as: hardscaping, pool decks, wet areas, patios, outdoor living areas, sun rooms, basements, and most interior residential and retail floors. When SureCrete SureSpray is properly applied and sealed, it will produce an attractive, high-strength wear surface with a long lifecycle and low maintenance. SureSpray applications do not contribute to Sick Building Syndrome (SBS), and when sealed with a resinous coating, can create an allergen-free interior flooring solution.

SureSpray can be applied by a variety of techniques: trowel, float, squeegee, brush, gravity-fed hopper, or rotor/stator pump system. SureSpray may also be colored by using any of the 30 standard SC TruColor pre-measured color packs. SureSpray is available in two formulations, standard and ST. The ST formulation is designed for high-temperature exterior applications, due to its use of a retarding agent, to allow for a longer work time by slowing the curing process. SureSpray ST is ideally suited for all exterior applications, especially when direct sunlight and/or warmer temperatures are present.



BENEFITS

- Create Multiple Textures
- Easy to Mix and Apply
- 30+ Integral Color Options

SURFACE PREP

The principles for surface preparation for SureSpray are aligned with 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 properly cured to have sufficient hydration, approximately 7 to 14 days, depending on temperature and humidity.
- 3. Sound:** No system should be placed on concrete that is flaking, spalling, or has hollow areas. In this case mechanical prep is required.
- 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 required profile is CSP-2 through CSP-4.

NOTE: The most common means to profile many concrete slabs (especially exterior slabs) is through the use of 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.

QUICK FACTS

PACKAGING

50 lb. Bag (22.7 kg)

MIXING RATIO

4 to 6 qt. (3.8 - 5.7 liter) water to (1) 50 lb. bag (22.7 kg) of SureSpray

COVERAGE

(1) 50 lb. (22.7 kg) bag of SureSpray equals approximately .46 ft³

Base Coat = 40 - 200 ft²

Finish Coat = 40 - 200 ft²*

*NOTE: Finish coat coverage range varies on desired texture being created

SHELF LIFE

Under normal conditions, when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened container is twelve (12) months from the date of purchase. Storage must be under roof and off the floor. Avoid temperature extremes. Rotate inventory to maintain product that is within limits.

PATCHING & CRACK TREATMENT

Once proper surface preparation has been achieved by either mechanical or chemical techniques, patching and crack treatment can be addressed. Patching can be completed using [Flash Patch™](#) or [Deep Patch™](#). Proper choice is determined by the depth of the patch and speed of cure. Refer to the TDS for proper application.

All cracks should be evaluated and determined if they are moving or static. Cracks that are determined to be "static" can be treated through the application of [SCT-22](#) (fast-cure two-part urethane) [SCT-EP](#) (epoxy and sand-based). See appropriate TDS for application.

Never bridge any joint in concrete. Construction joints are designed to move and will telegraph through crack treatment, patching materials, and SureBroom applications.

TEMPERATURE/CURE

1. Air and substrate surface temperatures should remain between 50°F (10°C) and 90°F (32°C) during and within 4w8 hours of placement.
2. No precipitation should occur during or within 48 hours of placement.
3. Avoid high heat and/or windy conditions. Attempt to minimize application during such harsh conditions by working during cooler hours, keeping materials shaded prior to mixing, running water until cool, and setting up temporary walls for wind blocks. The use of Surface Delay or Retarder may be helpful in these environmental situations. See appropriate TDS.
4. Interior applications and cool, shaded areas will take significantly longer to cure.
5. This product will cure similar to concrete. Depending on weather conditions, it may achieve initial set within 2 to 8 hours. Like concrete, full cure is reached at 28 days.

COLORANT

SureSpray can be integrally colored using SC TruColor color packs. To match the "Master" SureCrete Color Chart, use one SC TruColor per 50-pound bag of **SureSpray**.

MIXING & APPLICATION

MIXING

Due to **SureSpray's** diverse applications and textures, there can be a significant difference in water demand. Additionally, porosity of substrate and environmental conditions can affect water demand as well. Approximate water demands for **SureSpray** (50 lb. bag) is 4 to 6 quarts (3.8 - 5.7 L) of clean water. While water demands vary, the steps for mixing remain constant:

1. Carefully measure needed clean water and pour into a 5-gallon (18.9L) pail.
2. If color is desired, use one (1) SC TruColor™ color pack per 50 lb. bag of **SureSpray**. Open SC TruColor and pour all the contents into the clean water in the 5-gallon pail.
3. Thoroughly mix the SC TruColor into the water with a handheld concrete mixer equipped with a "Cage Mixing Blade" on low speed for a minimum of 15 seconds.
4. Slowly introduce **SureSpray** into the pail while the mixer is running.
5. After all the **SureSpray** has been added to the pail, 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 one (1) minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added at this time, with total water demand not exceeding six (6) quarts.

NOTE: *On larger projects, the use of a mortar mixer is allowed for the proper mixing of **SureSpray**. Careful consideration should be given to ensure water and color packs are properly measured to the exact bags of **SureSpray** being mixed (as mentioned in steps 1 through 6 under Mixing).*

APPLICATION

All **SureSpray** applications are recommended to have a two-coat system, comprised of a Base Coat and a Finish Coat. If SC TruColor is going to be used, it should be added to both coats for the most accurate finish color.

BASE COAT

The base coat for **SureSpray** can be applied by trowel, squeegee, or spray. The intent of the base coat is to create a uniform substrate, which will allow for the finish coat to create the desired texture/finish. The following techniques are based on application choice:

TROWEL / SQUEEGEE

1. Once the substrate has been properly prepped, ensure the surface is SSD (saturated surface dry) with no standing puddles.
2. Pour a generous ribbon of **SureSpray** and tightly trowel or squeegee the ribbon of **SureSpray** to the substrate, covering the entire area, by pushing and/or pulling the product. Take care not to leave edges high from where you start and stop.

NOTE: *Water should not be sprayed onto the surface to extend the timeframe for troweling or squeegeeing. This will cause the polymers to rise above the cement and aggregate, and leave a discoloration and porosity difference.*

SPRAYING

1. Once the substrate has been properly prepped, ensure the surface is SSD (saturated surface dry) with no standing puddles.
2. The spray gun should have its tip adjusted/placed to ¼" (6.3mm). Other size orifices can be used, but will change the amount and flowability of the material.
3. Setting for air compression should be approximately 8 ft² (.23m³) per minute at 40 psi (276 kPa) continuous.
4. Spray material straight down. Material should be placed at 100% coverage, this can be done by spraying in a circular motion, with material placed at the volume so it is almost flowing and self-leveling.

STENCIL & TAPE PATTERNS (OPTIONAL)

Adhesive and Non-Adhesive stencils along with fiber-reinforced tapes can elevate design elements in a **SureSpray** floor application. Apply any adhesive or non-adhesive stencils or tapes, once the overlay has dried to a uniform color/moisture level and can bear the weight of walking on it (typically in 2-8 hours, depending on environmental conditions).

1. Scrape the floor or use a rubbing stone to eliminate all unwanted rough edges and or material standing taller than desired. Sweep floor and vacuum, so that it is free of all loose contaminants.
2. Stencils and tape patterns should be placed. Ensure that adhesive materials are pressed down to the surface, as to achieve maximum bond strength.

FINISH COAT

The finish coat for **SureSpray** can be applied by trowel, squeegee, or spray. The intent of the finish coat is to create the desired texture/finish

i.e.: Euro-Texture (Slop Trowel), Stipple (Bubble Finish), Wet Bubble (Orange Peel), Knockdown, Wood Grain, Travertine, and Stencil or a-pe Patterns

1. The base coat should have dried long enough so that it is a uniform color/moisture level and can bear the weight of the applicator (approximately 2-8 hours), depending on environmental conditions (temperature, wind, humidity, direct sunlight).
2. Scrape the floor or use a rubbing stone to eliminate all unwanted rough edges and or material standing taller than desired. Sweep and blow the floor so that it is free of all loose contaminants.
3. The finish coat is applied in the same fashion as the above-mentioned techniques of the base coat.
4. Stencils and tape patterns may be removed as soon as the finish coat placed has dried to a uniform color/moisture level and can bear the weight of the applicator walking on it. How soon the stencil or tape patterns are removed can cause the material to chatter differently adding a 3-D element to the patterns created.

SECONDARY COLORING

Depending on the finish coat texture selected, the use of secondary coloring is ideal. This process can complete the 3-D effect and open up unlimited color designs. One may choose any of these three secondary coloring products:

- [Eco-Stain](#) – 29 water base stain colors. Refer to TDS.
- [Eco-Accent](#) – 10 dry antiquing colors. Refer to TDS.
- [SureStain](#) – 8 acid stain colors. Refer to SureStain TDS.

1. Once the finish coat has dried sufficiently, and all stencil and tape patterns have been removed, ensure the surface is free of all loose contaminants by scraping, sweeping, blowing, and/or vacuuming the floor.
2. Follow the application techniques from the TDS of the secondary coloring choice.

SEALING

To complete a **SureSpray** floor application, sealing is required. In cases where SC TruColor was added to the **SureSpray** and no secondary coloring was used, it should be sealed with a ColorTec sealer or coating such as:

- [ColorTec Acrylic](#) - 600 g/L Pigmented Solvent Acrylic
- [ColorTec Acrylic LV](#) - 400 g/L Pigmented Solvent Acrylic
- [ColorTec Acrylic WB](#) - Under 100 g/L Pigmented Water Based Acrylic
- [ColorTec 400](#) - Pigmented Solvent Polyurethane
- [ColorTec 400 WB](#) - Pigmented Water Based Polyurethane
- [ColorTec 180](#) - Pigmented Polyaspartic

In the flooring applications where a secondary coloring option has been used, a clear exterior sealer is recommended such as:

- [HS 300](#) - Slow Evaporating Clear Solvent Acrylic
- [HS 300 LV](#) - Slow Evaporating Clear Low VOC Solvent Acrylic

For flooring applications where a secondary coloring option has been used, a clear interior coating is recommended such as:

- [DK 400](#) - Solvent Polyurethane
- [DK 400 WB](#) - Water Based Polyurethane

- [DK 120](#) - Polyaspartic

Follow the application techniques from the TDS of the selected sealing choice.

SLIP RESISTANCE

Every **SureSpray** project should be engineered with safety in mind. Guidelines can be found from OSHA (Occupational Safety and Health Administration) and the ADA (Americans with Disabilities Act). The applicator assumes responsibility to meet these standards. The ADA directs that accessible walkways have a minimum COF (coefficient of friction) of 0.6. On ramps the ADA directs that it should be 0.8.

Achieving these COF ranges can be done in one of two ways: texture created by the cementitious overlay or the use of a gripping agent (see TDS for SureGrip) within desired sealer or coating. On the TDS for SureGrip you will find a COF chart. SureCrete will help guide and design floor systems to achieve needed COF on commercial and industrial projects.

SUITABILITY SAMPLE

Due to site-specific conditions, always prepare an adequate number of test areas. Wear protection system and include aesthetic suitable for products' intended use. On-site sample approval is especially critical in a substantial, heavy traffic situation or custom coloration.

CLEAN-UP

Before **SureSpray** dries, clean spills and tools with water.

DISPOSAL

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

LIMITATIONS

- For use by trained professionals who have read the complete SDS.
- SureSpray is formulated for use over concrete that is structurally sound, non-moving and thoroughly clean.
- SureSpray floor system requires a sealer or coating. The limitations of chosen sealer or coating can have an effect on a finished system. Refer to the TDS of chosen sealer or coating.
- SureSpray must NOT be used in areas subject to hydrostatic pressure, active water leaks, or continuous water immersion.
- SureSpray, as with most cement-based products, will allow cracks or joints in the substrate to reflect through.
- All substrate joints should be honored and extended up through the full depth of the SureSpray. The installation must be engineered to allow for expansion and contraction of both the substrate and the SureSpray.
- SureSpray alone is not designed to withstand harsh chemicals.

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 manufacturer's or seller's option. SureCrete LLC shall not be liable for the 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 a 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.

TESTING DATA

DENSITY

126.1 pounds/ft³ (2,018 kg/m³)

COMPRESSIVE STRENGTH - ASTM C-109

28 Days 4,278 PSI (29,495 kPa)

FLEXURAL STRENGTH - ASTM C-348

28 day 995 PSI (6,860 kPa)

TENSILE STRENGTH - ASTM C-190

28 day 440 PSI (3,033 kPa)

ABRASION RESISTANCE ASTM D-4060

28 day - <.50%

MOSAIC SHEAR ANSI A-118.4

28 day - 280 PSI (1,930 kPa)

SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

[SureSpray Safety Data Sheet \(SDS\)](#)

MANUFACTURER PART #'S

SureSpray™ – 50 lb. Bag SKU # 25101006

SureSpray™ ST – 50 lb. Bag SKU # 25101005

VOC REGULATORY COMPLIANCE

AIM	OTC	LADCO	CARB	SCAQMD	CANADA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>