

# WALLSPRAY

## LIGHTWEIGHT VERTICAL OVERLAY



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# WALLSPRAY

## Lightweight Vertical Overlay

### DESCRIPTION

**Wall Spray™** is a cement-based overlay designed for both interior and exterior vertical surfaces. It offers a wide variety of finishes from a simple knock-down to a sophisticated faux Venetian Plaster. **Wall Spray** may be applied by compressed air spray equipment and/or by trowel. Restoration, repair, re-surfacing, architectural accenting, and surface protection of existing cladding are all realized through **Wall Spray**. Typical areas include retention walls, entry/accent walls, columns, gable ends, fireplace accents, and any other vertical surfaces or walls. **Wall Spray** is formulated to provide excellent bonding to new as well as existing concrete, concrete block, ICF, polystyrene foam, drywall, plaster, plywood, and even painted surfaces.

### SURFACE PREPARATION

The principles for surface preparation for Wall Spray are aligned with other cement-based vertical overlays, the substrate must be:

- 1. Clean:** The surface must be free of dust, dirt, oil, grease, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker or prevent proper adhesion. Best results may be achieved through the use of **SCR** (see TDS).
- 2. Cured:** Any concrete surface must be sufficiently cured to have complete hydration, approximately 7 – 14 days depending on temperatures and humidity.
- 3. Sound:** No system should be placed on flaking paint or spalling concrete.
- 4. Profiled:** Proper profile for concrete surface 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. Some painted surfaces, likewise, may require some profile for bonding: deglossing or sanding. The most common means to properly profile a concrete surface or remove loose paint (especially exterior) is through the use a pressure washer equipped with a turbo-tip and **SCR** (see **SCR** TDS).

### TEMPERATURE/CURE

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



### PACKAGING

40 lb. (18.1 kg) bag

### MIXING RATIO

3.5 to 4 qts. (3.3—3.8 liter) water to 1 – 40 lb. (18.1 kg) bag of **Wall Spray**

(optional) .5 pound (227 g) **SC TruColor** – 30 standard colors (see **SC TruColor** TDS)

\*note will not match color chart

### COVERAGE

Depends upon application and substrate

1 - 40 lb. (18.1 kg) bag of **Wall Spray**

@ ¼" (6.35 mm) = 28-30 ft<sup>2</sup> (2.6—2.8 m<sup>2</sup>)

### DENSITY

121 pounds/ft<sup>3</sup> (1938 kg/m<sup>3</sup>)

### COMPRESSIVE STRENGTH ASTM C-109

28 day 2870 PSI (19788 kPa)

### FLEXURAL STRENGTH ASTM C-348

28 day 950 PSI (6550 kPa)

### TENSILE STRENGTH ASTM C-190

28 day 140 PSI (965 kPa)

### ABRASION RESISTANCE

28 days %loss –500 cycles – <.40%

### MOSAIC SHEAR ANSI A-118.4

28 day 275 PSI (1896 kPa)

### WATER PERMEABILITY ASTM D2247

FREZE/THAW 50 cycles - Passes

### 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

- Interior applications and cool, shaded areas will take significantly longer to cure. Even in summer months, the winter mix design should be considered for these applications.
- This product (depending on weather conditions) should achieve initial set within 6 – 8 hours. Like concrete full cure is reached at 28 days.
- Sealer selection for a finished **Wall Spray** project will require different cure times:
  - a. HS, Super, or ColorTec Series** products may apply as soon as overnight. See specific acrylic sealer TDS.
  - b. DK (Dura-Kote) or ColorTec** coatings may require longer cure times, perhaps 24 hours or more. See specific coating TDS.

### APPLICATION

#### Patching

Upon surface preparation, some areas may require patching prior to application of **Wall Spray**. **Wall Stamp** is an excellent choice as a patching product to fill large voids on vertical surfaces.

### Mixing and handling

1. Add 3 ½ qts. (3.3 liter) water, to a 5 gal. (18.9 liter) pail.
2. Add **SC TruColor** 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 **Wall Spray** 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. Additional water may be added up to a total of 4 qt. (3.8 liter) water to 1 – 40 lb. (18.1 kg) bag.

### Base Coat

All exterior **Wall Spray** applications are recommended to have a base coat. Base coats are most commonly sprayed on with compressed air spray equipment, but may also be applied with hawk and trowel.

#### Concrete, common substrates

1. Common setting for spray gun orifice is approximately ¼" (6.3mm).
2. Setting for air compressor should be approximately 8 ft<sup>3</sup> (.23m<sup>3</sup>) per minute at 40 psi (276 kPa) continuous.
3. Spray 100% coverage, leaving no bare spots, a minimum of 1/8-3/16" (3—5 mm) of material.
4. Depending upon desired finished texture, may or may not be troweled.

#### EFIS, foam, hard coat, or randomly cracked substrate (e.g. concrete block)

1. Minimum 4.5 oz. (127 g) standard fiberglass mesh is required.
2. Spray a minimum of 1/8-3/16" (3—5 mm) of material as a first pass.
3. Trowel the mesh into the wet base coat.
4. Spray a second pass to ensure mesh is completely encapsulated in base coat when troweled flat.

### (Optional) Stencils and grout tape patterns

1. Stencils and tape patterns may be placed after scraping base coat, and prior to application of finish coat.
2. Stencils and tape patterns may be removed as soon as product dries sufficiently and prior to sealing.

### Finish Coat

1. The base coat must dry sufficiently (minimum overnight). Longer dry times are required on concrete block to prevent joints from "ghosting" through the finish coat.
2. Scrape the surface of base coat and remove any loose material.
3. The finish coat applies as the base coat described above. Alterations of air pressure, spray gun orifice size, and trowel techniques will yield numerous pleasing finish coats.

### Secondary coloring

Depending upon the application selected, **Eco-Stain** may provide aesthetic appeal to a project. Refer to **Eco-Stain** TDS.

### Sealing

To complete a **Wall Spray** project sealing is required. While multi-colored, "designer finishes" may seal clear, for the simple single color projects, use a good quality wall paint.

Excellent choices for sealer include:

- A good quality wall paint
- **Super 20** – clear 30% solids, 600 g/L solvent
- **Super WB** – clear 30% solids water based
- **Super WB LL** – clear low luster water based

Refer to the appropriate spec sheet for details.

*Note: never use a solvent based sealer on **Wall Spray** placed over a polystyrene foam substrate*

## 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 **Wall Spray** 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 **Wall Spray** 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 replacement 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-wall-spray-sds.pdf](#)