



## DUDICK, INC.

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## STERI-CRETE SL

Semi-Self Leveling  
Water Dispersed Polyurethane  
Floor Topping, 1/16"-3/16"  
(1.6mm-4.8mm)

### GREEN BUILDING FEATURES

Low emitting material  
Low installation odor  
Processed and manufactured in Ohio

### APPLICATION FEATURES

Thermal Shock Resistant  
Excellent Chemical Resistance  
Fast Setting  
Low Temperature Cure  
USDA Compliant  
100% Reactive  
Anti-Microbial Agents are available as an option  
Anti-Skid Version Available  
Coefficient of Thermal Expansion  
Similar to Concrete  
**This system, installed as supplied, is compliant with California SACQMD Rule 1113 for VOC content**

### RECOMMENDED APPLICATIONS

General Concrete Restoration  
Breweries and Beverage Plants  
Automotive Aisleways  
Food Processing Plants  
Meat Packaging Plants  
Loading Ramps  
Packing Plants  
Machine Shops  
Laboratories

### CHEMICAL RESISTANCE

Organic Acids  
Dilute Inorganic Acids  
Alkali Solutions  
Salts  
Oils  
Aliphatic Solvents

### TEMPERATURE LIMITS

-120°F to 220°F  
100°F – Continuous Chemical Exposure  
220°F – Occasional Steam Cleaning

**COLORS:** Red and Grey base, consult Dudick, Inc. for available color quartz and acrylic flake patterns.

### PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	1.1 x 10 <sup>-5</sup>
ASTM C-531	
Compressive Strength	7,300 PSI
ASTM C-579	
Compressive Strength	>20,000 PSI
ASTM D-695 (Steri-Crete SL Topcoat)	
Modulus of Elasticity	1.7 x 10 <sup>5</sup> PSI
ASTM C-580	
Tensile Strength	825 PSI
ASTM C-307	
Flexural Strength	1,800 PSI
ASTM C-580	
Taber Abrasion	70 mg
ASTM D-4060	
Tensile Bond Strength	Cohesive failure of Concrete
ASTM D-7234	
Density	125lb/cu.ft.

### SPECIFICATIONS

**Steri-Crete SL** shall be a 1/16" – 3/16" thick, semi-self-leveling aggregate filled, polyurethane floor topping as manufactured by Dudick, Inc. Application shall be according to the manufacturer's recommendations.

**THE STERI-CRETE SL BODYCOAT SYSTEM**

**Bodycoat:** The aggregate filled **Steri-Crete SL** system develops a cure strength approximately 2 times that of the concrete base to which it is applied. The monolithic topping exhibits excellent physical and mechanical strength and chemical resistance.

**STERI-CRETE SL BODYCOAT PACKAGING**

Component A	8 lbs. 12 oz.
Component B	8 lbs.
Aggregate	38 lbs.

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

SQUARE FEET PER UNIT	
Steri-Crete	
Bodycoat	35 ft. <sup>2</sup> @ 3/16"
Steri-Crete SL with Broadcast	
Bodycoat	50 ft. <sup>2</sup> @ 1/8"
Broadcast Coat	90 ft. <sup>2</sup> @ 15 mils
20/40 Mesh Sand	1-1 ½ lbs. / ft <sup>2</sup>
Medium Broadcast Quartz Aggregate	.5 lb. - .75lb. / ft <sup>2</sup>
Acrylic Flake	.25 lb. / ft <sup>2</sup>
Steri-Crete SL Topcoat	80 ft <sup>2</sup> / gallon

**For textured finish – Broadcast 20/40 mesh sand or medium broadcast quartz aggregate into the topcoat. \*Please note that with broadcast, the total thickness of Steri-Crete SL with Broadcast is 3/16".**

\*\*Quantities shown are for estimating purposes only. Actual field usage may vary.

**APPLICATION INSTRUCTIONS**

**SURFACE PREPARATION**

**Concrete:** Concrete must be abrasive blasted to remove surface laitance and other contaminants. Concrete must be dry and free of curing compounds and form release agents. Surface texture should be similar to 40-60-grit sandpaper **with exposed pea gravel**.

The prepared surface should have a minimum tensile strength of 250 PSI per ASTM D-4541.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263.

Additional surface preparation will be required if a 40-60 grit texture **with exposed pea gravel** is not achieved and the surface laitance not completely removed with the first mechanical preparation procedure.

**APPLICATION SPECIFICATIONS**

Temperature of concrete substrate must be between 41°F and 90°F.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F above the Dew Point.

Application of **Steri-Crete SL** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Shading or evening application may be required. Consult a Dudick representative.

POT LIFE AND CURE TIME			
	Pot Life	Working Time	Cure Time
50°F	20 min.	25 min.	12-16 hrs.
70°F	15 min.	20 min.	6-8 hrs.
90°F	8-9 min.	15 min.	3-4 hrs.

This material must be chilled/cooled for application at 90°F or higher. Buckets of dry ice may be required for cooling.

Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

**Recoat Time: Material must be abraded prior to recoating with Steri-Crete SL if it has set longer than 48 hours.**

**INSTALLATION SPECIFICATIONS MIXING EQUIPMENT**

**When deciding on mixing equipment, keep in mind that Steri-Crete SL has a 15 minute working time at 70°F.**

A 10-15 gallon rotating drum container is recommended. It is portable and easy to clean. The stationary mixing paddle provides both radial and axial action, scraping both the sides and bottom of the container. A mortar



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mixer can be used as long as it contains blades for uniform mixing.

**STERI-CRETE SL BODYCOAT INSTALLATION**

**Mixing Sequence:** **Component A** should be thoroughly mixed to redisperse any pigments or fillers that may have settled prior to adding **Component B**. Add the premeasured **Component A** to the mixer followed by the addition of the premeasured **Component B** and mix for one minute.

Slowly add the aggregate and continue mixing until all of the aggregate has been totally wetted.

**Application**

**Bodycoat:** Set the gauge rake to the desired thickness, then pour the mixed material and spread to the recommended thickness. After spreading the material, roll with a spike roller to level and deaerate.

Broadcast (Optional) If anti-skid is required, broadcast 20-40 mesh sand or medium broadcast quartz aggregate into the wet **Steri-Crete SL** to complete saturation and allow to cure overnight. For a decorative finish, broadcast acrylic flake or colored quartz aggregate into the wet **Steri-Crete SL Bodycoat**. Once cured, the excess aggregate or flake can be removed with a broom and then sealed with **Steri-Crete SL Topcoat**.

**STERI-CRETE SL TOPCOAT MIX RATIO (BY VOLUME)**

Component A                      1 gallon  
 Component B                      77 fl. oz.

**Steri-Crete SL Topcoat Pot Life and Cure Times**

Temperature	Pot Life	Recoat Time	Cure Time
50°F	50 min.	12-14 hours	96 hours
75°F	30 min.	6-8 hours	24 hours
90°F	15 min.	5-6 hours	20 hours

Prior to adding the **Component B**, mechanically mix the **Steri-Crete SL Topcoat Component A** separately for 1-2 minutes. Add the correct amount of **Component B** and mix for one minute. Apply evenly by roller or

squeegee. Apply in 5-10 mil increments to desired texture.

**CLEANING**

Use S-10 Cleaning Solvent, MEK or Acetone to clean tools and equipment.

**SHIPPING**

Refer to Material Safety Data Sheets.

**STORAGE**

Warning: All Dudick products classified by DOT with either white, yellow or red labels must not be mixed or stored together as an explosive reaction may occur.

Store all products in a cool, dry area away from open flames, sparks or other hazards.

When stored in their original, unopened containers, **Steri-Crete SL** components will have a six-month shelf life. Storage in direct sunlight or excessive heat will reduce working time.

**SAFETY**

**M.S.D.S:** **Material Safety Data Sheets must always be read before using products.** **Steri – Crete SL** toppings are intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied. If **Steri-Crete SL** toppings are to be applied by your own personnel or by a third

party contractor, please be sure that they are aware of the following safety precautions:

- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.
- Suitable respirators should be used during application.
- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.
- If contact with hardeners occurs, flush the skin with flowing water. **Steri-Crete SL** liquid can be removed with **S-10 Cleaning Solvent, Acetone, MEK, or lacquer thinner.**
- Keep open flames and sparks away from the area where materials are being mixed and applied.
- If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If swallowed, do not induce vomiting; call a physician immediately.
- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people.

**NOTE:** Dudick, Inc. ("Dudick") warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or sub-contractors shall be performed in a workmanlike manner. Dudick's sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES,

INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK'S NEGLIGENCE. This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

8/13/21