



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

*** Steri-Crete SL contributes toward satisfying credit MR 5 and EQ 4.2 under LEED.**

Low emitting material
No volatile organic compounds
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
Inhibits Bacteria & Fungus Growth
Anti-Skid Version Available
Coefficient of Thermal Expansion
Similar to Concrete



The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a nationally accepted benchmark for Design, Construction, and Operation of High Performance Green Buildings.

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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.

* = Products are not reviewed or certified under the LEED Rating System. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on LEED, visit www.usgbc.org/leed.

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	1.1 x 10 ⁻⁵
ASTM C-531	
Compressive Strength	7,300 PSI
ASTM C-579	
Modulus of Elasticity	1.7 x 10 ⁵ PSI
ASTM C-579	
Tensile Strength	825 PSI
ASTM C-307	
Flexural Strength	1,800 PSI
ASTM C-580	

Taber Abrasion ASTM D-4060	70 mg
Tensile Bond Strength ASTM D-4541	Cohesive failure of Concrete
Density	125lb/cu.ft.

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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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.

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 STERI-CRETE SL BODYCOAT SYSTEM

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

Fill Coat: The scratch coat must be applied prior to the bodycoat to fill the surface profile and create a relatively smooth surface.

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

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.

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.

STERI-CRETE SL BODYCOAT PACKAGING

Component A	8 lbs. 12 oz.
Component B	8 lbs.
Aggregate	40 lbs.

APPLICATION SPECIFICATIONS

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

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

Relative humidity must not exceed 90%.

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

SQUARE FEET PER UNIT	
Steri-Crete	
Fill Coat	125-150 ft. ² @ 4mils
Bodycoat	35 ft. ² @ 3/16”
Steri-Crete SL with Broadcast	
Bodycoat	50 ft. ² @ 1/8”
20/40 Mesh Sand	1-1 ½ lbs. / ft ²
Medium Broadcast Quartz Aggregate	.5 lb. - .75lb. / ft ²
Acrylic Flake	.25 lb. / ft ²
Steri-Crete SL Topcoat	80 ft. ² / gallon

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.

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”.**



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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 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

Fill Coat: Pour the mixed material onto the floor and spread with a squeegee or steel trowel tightly to fill and

cover the concrete surface profile **and allow to cure overnight.**

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 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 Sealer 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. Shock – 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.

4/30/10