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
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

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.

LEED and related logo is a trademark owned by the U.S. Green
Building Council and is used by permission.

* = 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.

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 10⁻⁵
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
ASTM C-580
1.7 x 10^5 PSI

Tensile Strength
ASTM C-307
825 PSI

Flexural Strength
ASTM C-580
1,800 PSI

Taber Abrasion
ASTM D-4060
70 mg

Tensile Bond Strength
ASTM D-7234
Cohesive failure of Concrete

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

<table>
<thead>
<tr>
<th>SQUARE FEET PER UNIT</th>
<th>Steri-Crete</th>
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<tbody>
<tr>
<td>Bodycoat</td>
<td>35 ft.² @ 3/16”</td>
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<tr>
<td>Steri-Crete SL with Broadcast</td>
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<th>POT LIFE AND CURE TIME</th>
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<tr>
<td>Pot Life</td>
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<tr>
<td>----------</td>
</tr>
<tr>
<td>50°F</td>
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<tr>
<td>70°F</td>
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<tr>
<td>90°F</td>
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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.
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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

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

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Pot Life</th>
<th>Recoat Time</th>
<th>Cure Time</th>
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<tbody>
<tr>
<td>50°F</td>
<td>50 min.</td>
<td>12-14 hours</td>
<td>96 hours</td>
</tr>
<tr>
<td>75°F</td>
<td>30 min.</td>
<td>6-8 hours</td>
<td>24 hours</td>
</tr>
<tr>
<td>90°F</td>
<td>15 min.</td>
<td>5-6 hours</td>
<td>20 hours</td>
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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.

06/20/19