



DUDICK, INC.

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STERI-FLOR SL

**MULTI-FUNCTIONAL, SEMI-SELF
 LEVELING EPOXY FLOOR
 TOPPING 20-25 mils (.51-.58 mm)**

GREEN BUILDING FEATURES

*** Steri-Flor SL contributes toward satisfying credit
 MR 4, 5 and EQ 4.2 under LEED.**

FEATURES

- Meets all VOC requirements
- Low Odor
- Semi-self leveling to a high-gloss or satin finish at 20 mils
- USDA Compliant
- Stain resistant with good clean ability
- Can be aggregate filled and trowelled at 3/16" - 1/4" using **EA-1 Aggregate**
- Can be seeded for anti-skid surface
- Can saturate fiberglass reinforcement for better crack bridging properties

APPLICATION FEATURES

- Semi-self leveling to a high-gloss or satin finish at 20 mils.
- Can be seeded for anti-skid surface.
- Stain resistant with excellent cleanability.
- Can saturate fiberglass reinforcement for better crack bridging properties.
- USDA Compliant
- Anti-Microbial Agents are available as an option

**This system, installed as supplied, is compliant with
 California SACQMD Rule 1113 for VOC content**

CHEMICAL RESISTANCE

- Dilute Inorganic Acids
- Dilute Alkali Solutions
- Mineral Oils
- Salt Solutions
- Aliphatic Organic Solvents



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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TYPICAL APPLICATIONS

- Food Processing Floors
- Laboratories
- Pharmaceutical Plants
- Waste Water Treatment Facilities
- Aisleways
- Printed Circuit Board Facilities

COLORS: Available in Standard Floor Colors.

- Light Gray
- Medium Gray
- Dark Gray
- Tan
- Tile Red
- Beige
- Light Blue
- Dark Blue
- Light Green
- Dark Green

TYPICAL PROPERTIES

	<i>STERI-FLOR SL</i>
Compressive Strength ASTM C579	>11,000 PSI (76 MPa)
Tensile Strength ASTM D638	2,200 PSI (15 MPa)
Flexural Strength ASTM C580	1,800 PSI (12 MPa)
Flame Spread ASTM D635	mm/self extinguishing
Shore D Hardness ASTM D2240	85 +/-3
Tensile Bond Strength ASTMC7234	Cohesive failure of concrete
Taber Abrasion ASTM D4060	40 mg

* = 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

SPECIFICATIONS

Steri-Flor SL shall be a 20 mil thick, semi-self leveling, 100% solids multifunctional epoxy floor topping.

Steri-Flor SL is manufactured by Dudick, Inc. and applied in accordance with the manufacturer's recommendations.

THE STERI-FLOR SL SYSTEM

Steri-Flor SL uses a moisture-tolerant primer and a semi-self leveling topcoat to achieve a strongly bonded monolithic topping with moderate chemical resistance and good physical and mechanical properties.

Primer: The blasted concrete surface must be primed to provide the "wetting out" required for good bonding. **Steri-Flor SL** can be applied while the primer is still tacky. Do not allow the primer to puddle.

Topcoat: The semi-self-leveling **Steri-Flor SL** develops a cured strength 2-3 times that of the concrete base to which it is applied to provide exceptional durability and prolong the life of the substrate.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

THEORETICAL SQUARE FEET PER GALLON AT 20-25 MILS	
Primer	See specified Primer Data Sheets
Steri-Flor SL Topcoat	80 ft ²

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

SURFACE PREPARATION

Concrete: Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other contaminant must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents. Surface texture should be similar to 60-80 grit sandpaper or the visual standard, CSP-3 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D7234.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet test, ASTM D4263.

Additional surface preparation will be required if a 60-80 grit texture is not achieved and the surface laitance not completely removed with first mechanical preparation procedure.

Mechanical preparation removes laitance, exposing honeycombs or voids beneath the surface, which can be filled with **Scratch Coat 300**. (Refer to separate product bulletin)

ENVIRONMENTAL CONDITIONS

Temperature of concrete substrate must be between 50°F and 110°F.

Relative humidity must not exceed 90%.

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

PRIMING

The following Primers are compatible with **Steri-Flor SL**: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.

TOPCOAT

STERI-FLOR SL MIX RATIO (BY VOLUME)

FOR GLOSSY FINISH:

Component A	1 gallon
Component B	48 fl. oz.

FOR SATIN FINISH: (Must order special Component B)

Component A	1 gallon
Component B	65 fl. oz.

Steri-Flor SL Pot Life & Cure Time

Temperature	Pot Life	Cure Time
50°F	50-60 min.	72 hrs.
75°F	30-40 min.	24 hrs.
90°F	20-30 min.	20 hrs.

TOPCOAT

Prior to adding **Component B**, mix **Steri-Flor SL Component A** for 1-2 minutes to assure that any pigment or filler, which may have settled, is dispersed so that a uniform color is achieved. Combine the **A and B Components** and stir mechanically for approximately 2-3



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minutes to achieve a uniform color and consistency. Pour the **Steri-Flor SL** mix directly onto the primed concrete.

The mix should be spread to a 20-mil thickness with a serrated squeegee, notched trowel or gauge rake. The gauge rake is preferred. After spreading the material to the proper thickness, roll with a porcupine roller to level and deaerate.

To terminate work, use duct tape to set a straight edge and remove the tape when the topping becomes lightly tacky. Start the next work period butting into this area. Permanent terminating lines should be made into the saw cuts in the concrete.

OPTIONAL SEALERS

For **improved** UV stability, abrasion, stain resistance and chemical resistance. A Sealer can be applied over **Steri-Flor SL**. Consult Dudick for best options.

NOTES

Important - With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by washing with warm water and detergent.

The pot life of **Steri Flor SL** system components will depend upon the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the corresponding Pot Life & Cure Time charts.

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

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

Steri-Flor SL system is intended for interior use only.

CLEAN UP

Use **S-10 Cleaning Solvent, MEK or Acetone** to clean tools and equipment. **DO NOT USE LACQUER THINNER.**

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 can occur.

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

When stored in their original, unopened containers at 50°F-75°F, **Primers** and **Steri-Flor SL** components will have a six-month shelf life. Storage in direct sunlight or excessive heat will reduce working time and shelf life.

SAFETY

M.S.D.S.: **Material Safety Data Sheets** must always be read before using products. **Steri-Flor SL** materials 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-Flor SL** is 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:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.
- 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, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. **Steri-Flor SL** liquid can be removed with **S-10 Cleaning Solvent, MEK, or Acetone.**
- 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.

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.

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