



DUDICK, INC.

Corporate Offices
1818 Miller Parkway
Streetsboro, OH 44241
330-562-1970
800-322-1970
330-562-7638 FAX
www.dudick.com

STERI-FLOR T – SL/SF SEMI-SELF LEVELING OR SEEDED HYBRID EPOXY, HEAVY DUTY INDUSTRIAL FLOOR SYSTEM

GREEN BUILDING FEATURES

* Steri-Flor T-SL/SF contributes toward satisfying credit MR 5 and EQ 4.2 under LEED.

- Low emitting material
- Low VOC
- Low installation odor
- Processed and manufactured in Ohio

FEATURES

- USDA Compliant
- 100% Solids Epoxy
- High Compressive Strength
- Low Odor
- Good UV Stability
- No Aggregate Dusting
- Integral Cove Base and Curb (optional)
- Anti-Microbial Agents are available as an option

TYPICAL APPLICATIONS

- Light & Heavy Manufacturing
- Food Processing, Beverage Plants, Dairies
- Breweries & Distilleries
- Pharmaceutical & Research Facilities
- High Traffic Areas (Aisleways, Loading Docks)



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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CHEMICAL RESISTANCE

- Salts
- Dilute Inorganic Acids
- Alkaline Solutions
- Oils

*Please consult Dudick, Inc. for complete chemical resistance information.

COLORS

Standard Colors available (See color chart). Consult Dudick, Inc. for special colors.

TYPICAL PHYSICAL PROPERTIES

Compressive Strength ASTM C579	8,000-10,000 PSI (48-62 MPa)
Tensile Strength ASTM C307	1,800-2,000 PSI (12-14 MPa)
Flexural Strength ASTM C580	2,500-2,700 PSI (17-19 MPa)
Flame Spread ASTM D635	<5 mm/self extinguishing
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete

SPECIFICATIONS

Steri-Flor T-SL/SF system shall be a heavy duty industrial floor that consists of a moisture tolerant primer, a bodycoat, and a highly chemical resistant topcoat.

Steri-Flor T-SL/SF is manufactured by Dudick, Inc. and applied in accordance with the manufacturer's recommendations.

THE STERI-FLOR T-SL/SF SYSTEM

Steri-Flor T-SL/SF consists of a moisture tolerant primer, an aggregate filled bodycoat applied by slurry or filled with aggregate by broadcast method to a specified thickness, 1/8" minimum - 1" maximum.

Primer: The prepared concrete surface is primed to provide the "wetting out" required for good bonding. **Steri-Flor T-SL/SF Bodycoat** can be applied while the Primer is tacky. Do not allow Primer to puddle.

Bodycoat: The aggregate filled **Steri-Flor T-SL/SF Bodycoat** develops a cured strength 2-3 times that of concrete providing exceptional durability and prolonging the life of the concrete substrate.

Topcoat: Consult Dudick, Inc. for the recommended specialty topcoats or refer to the specified topcoat data sheet.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

STERI-FLOR T-SL/SF COVERAGE RATES	
Primer	See specified Primer Data Sheets
Bodycoat	Consult Dudick, Inc. (varies with application method) and thickness
20-40 Mesh Sand	20 lbs. per gallon
Grout Coat	80-100 ft ² /gallon
Topcoat	Consult specified topcoat data sheet

**Quantities shown are for estimating purposes only. Coverages will vary due to the porosity of substrate.

All quantities are estimated and will be affected by job conditions and workmanship.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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 30-

40 grit sandpaper or the visual standard, CSP-5 from the International Concrete Repair Institute. The prepared surface should have a minimum tensile strength of 250 PSI per ASTM D7234.

All concrete substrates must be checked for moisture prior to primer application using the Plastic Sheet Test per ASTM D4263.

Additional surface preparation will be required if a 30-40 grit texture is not achieved and the surface laitance not completely removed with the first mechanical preparation procedure.

ENVIRONMENTAL CONDITIONS

Temperature of the 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 T-SL/SF**: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.

STERI-FLOR T SL/SF BODYCOAT/GROUT COAT MIX RATIO BY VOLUME

Component A 128 oz.
Component B 48 oz.

(ABOVE COMPONENTS ARE PRE-MEASURED)

Steri-Flor T-SL/SF Bodycoat liquids are available in 1 and 5 gallon units.

STERI-FLOR T-SL/SF POT LIFE AND CURE TIME

Steri-Flor T-SL/SF		
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.



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BODYCOAT Semi-Self Leveling Method

Steri-Flor T–SL/SF Liquid Components A & B shall be mixed by mechanical method. The liquids must be thoroughly blended before adding the aggregate.

Mechanically premix premeasured **Steri-FlorT–SL/SF Components A & B** thoroughly for 2-3 minutes. Gradually add appropriate amount of **Steri-Flor T SL/SF aggregate** to achieve a mixed consistency of a semi-self leveling mortar.

Pour the mixed **Steri-FlorT–SL/SF** into a wheelbarrow and transport to each work area. Place mix directly onto the primed concrete. Use a wooden straight edge or screed box to initially distribute the material to the specified thickness. Immediately broadcast aggregate into Wet Bodycoat to rejection.

To terminate work, square cut the topping and start the next work period butting to this edge. Permanent terminating edges should be beveled into saw cuts in the concrete.

Allow **Steri-FlorT–SL/SF Bodycoat** to cure overnight at 75°F. Bodycoat may require sanding and / or grinding to achieve desired texture smoothness.

BODYCOAT BROADCAST METHOD

Steri-Flor T–SL/SF Liquid Components A & B should be thoroughly mixed for 2-3 minutes. Apply the neat resin to the substrate using a serrated squeegee, notched trowel, or spray apply to a Wet film thickness of 30 mils. Immediately Broadcast Aggregate to rejection, once cured, remove excess aggregate. Repeat to produce a 1/8" thick topping. If additional thickness is specified, repeat above steps.

To terminate work, square cut the topping and start the next work period butting to this edge. Permanent

terminating edges should be beveled into saw cuts in the concrete.

Allow **Steri-Flor T–SL/SF Bodycoat** to cure overnight at 75°F. Bodycoat may require sanding and / or grinding to achieve desired texture smoothness.

Grout Coat

Apply sufficient Catalyzed **Steri-Flor T–SL/SF grout coat** to fill any porosity in the body coat. Let cure to tack free state and apply specified topcoat. Additional applications of the specified topcoat and sanding between grout coat and topcoats maybe required to achieve desired texture and smoothness of floor.

TOPCOAT

Refer to the specified topcoat data sheet

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 T–SL/SF** will depend on 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 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 T–SL/SF System** 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 T-SL/SF 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 white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.

All products should be stored in a cool, dry area, away from open flames, sparks, or other hazards.

When properly stored in their original unopened containers at 50°F-75°F, **Primers and Steri-Flor T-SL/SF** 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. The components of the **Steri-Flor T-SL/SF Systems** 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 T-SL/SF** 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. The components of the **Steri-Flor T-SL/SF System** 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



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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.

01/03/18