Steri-Flor® GP

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Self-leveling, 100% solids, general purpose epoxy floor coating
Description	Steri-Flor GP is a self-leveling epoxy applied to achieve a strongly bonded monolithic topping with moderate chemical resistance and good physical and mechanical properties.
Features	• Contributes toward satisfying credit for low emitting material under LEED 4.1 • Meets California Department of Public Health CDPH/EHLB Standard Method Version 1.2 2017. Compliance certification available upon request. • Meets SCAQMD Rule 1113 for VOC content • Contains 15% post industrial recycled product • Low VOCs • Low installation odor • Can be seeded for anti-skid surface • Stain resistance with excellent cleanability • Can be reinforced with fiberglass to increase crack bridging properties • USDA compliant
Typical Uses	• Food processing floors • Laboratories • Pharmaceutical plants • Wastewater treatment facilities • Aisleways • Printed circuit board facilities
Color	This product is pre-pigmented from factory, the available colors can be found in the Universal Color Pack section of Dudick Flooring Color Chart
Finish	Gloss
Primer	Steri-Prime, Steri-Prime DTO, Primer 67LV or others as recommended by Dudick
Dry Film Thickness	10 - 40 mils (254 - 1016 microns) DFT Greater thicknesses can be achieved with aggregate reinforcement. Contact Dudick for recommendations.
Solids Content	By Volume 100%
Theoretical Coverage Rate	1604 ft²/gal at 1.0 mils (39.4 m²/l at 25 microns) 160 ft²/gal at 10.0 mils (3.9 m²/l at 250 microns) 40 ft²/gal at 40.0 mils (1.0 m²/l at 1000 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 4 g/l
Limitations	For interior use only
Chemical Resistance	• Dilute inorganic acids • Dilute alkali solutions • Cleaning & sanitizing solutions • Mineral oils • Salt solutions

SELECTION & SPECIFICATION DATA

Topcoats	Optional topcoats available depending on exposure, desired UV stability, and durability requirements. Contact Dudick for recommendations.

SUBSTRATES & SURFACE PREPARATION

Concrete	Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other surface contaminants must be removed prior to surface preparation. Concrete must free of curing compounds and form release agents. Abrade the surface to achieve an ICRI CSP 3-5 surface profile. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D-7234. Anchor grooves or keyed joints, at least ¼" (0.64 cm) wide and ¼" (0.64 cm) deep, must be cut at terminations and transitions. All control joints must be honored. Anchor grooves or keyed joints must be cut at all transitions and terminations. These must be cut at least ¼" (0.64 cm) wide and ¼" (0.64 cm) deep. Filled joints and cracks in the concrete may be coated, but if movement occurs the coating will crack with the movement of the concrete. If mechanical preparation exposes honeycombs or voids beneath the surface, these can be filled with Scratch-Coat 300. Concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263. If moisture is found to be present contact Dudick for further recommendations

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Compressive Strength (ASTM C579)	12,000 PSI (82.7 MPa)
Compressive Strength (ASTM D695)	21,000 PSI (144.8 MPa)
Dynamic Coefficient of Friction (Wet) - ANSI A326.3	>0.42
Flexural Strength (ASTM C580)	11,500 PSI (79 MPa)
Shore D Hardness (ASTM D2240)	85-90
Static Coefficient of Friction - ANSI B101.1	>0.6
Taber Abrasion (ASTM D4060)	32 mg loss
Tensile Bond Strength (ASTM D7234)	Cohesive failure of concrete
Tensile Strength (ASTM C307)	5,000 PSI (34.5 MPa)
Tensile Strength (ASTM D638)	7,200 PSI (49.6 MPa)

Dudick Steri-series flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation.

MIXING & THINNING

Mixing	Prior to adding Component B, mix Steri-Flor GP 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 minutes to achieve a uniform color and consistency. DO NOT MIX PARTIAL KITS. Pour the Steri-Flor GP mix directly onto the primed concrete.
Ratio	2:1 by volume

MIXING & THINNING

Pot Life

50-60 minutes at 50°F (10°C)
30-40 minutes at 75°F (24°C)
20-30 minutes at 90°F (32°C)

The Pot life of Steri-Flor GP system components will depend upon the temperature. To prevent material waste and avoid damage to equipment, do not mix more material then can be used according to the corresponding Pot Life data.

APPLICATION PROCEDURES

Application

The mixed product should be spread to desired thickness with a serrated squeegee, notched trowel or gauge rake. After spreading the material to the proper thickness, roll with a short nap roller to level.

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.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	60°F (16°C)	0%
Maximum	80°F (27°C)	100°F (38°C)	100°F (38°C)	90%

Substrate temperature must be 5°F (3°C) above the dew point.
Application of Steri-Flor GP 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.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Maximum Recoat Time	Cure Time
50°F (10°C)	17 Hours	120 Hours	120 Hours
75°F (24°C)	11 Hours	72 Hours	72 Hours
90°F (32°C)	7 Hours	48 Hours	48 Hours

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.

TESTING / CERTIFICATION / LISTING

General

Dudick flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation to meet static coefficient of friction requirements for ANSI B101.1 of >0.6 and dynamic coefficient of friction (DCOF)* – Wet ANSI A326.3 of >0.42.

CLEANUP & SAFETY

Cleanup

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

CLEANUP & SAFETY

Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal safety precautions. Use adequate ventilation. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Packaging	**1 Gallon (3.81 liter) kit** Steri-Flor GP Part A .67 gal (2.54 liters) Steri-Flor GP Part B .33 gal (1.25 liters) **5 Gallon (18.93 liter) kit** Steri-Flor GP Part A 3.35 gal (12.68 liters) Steri-Flor GP Part B 1.65 gal (6.25 liters) **15 Gallon (56.8 liter) Kit** Steri-Flor GP Part A 2x 5 gal (18.93 liters each) Steri-Flor GP Part B 5 gal (18.93 liters)
Shelf Life	12 months when stored in their original, unopened containers at 50°F-75°F (10°C-24°C). Storage in direct sunlight or excessive heat will reduce working time and shelf life.
Storage	Store all products in a cool, dry area away from open flames, sparks or other hazards. Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period. **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.

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.