

SELECTION & SPECIFICATION DATA

Generic Type	Self-leveling, 100% solids, low temp application, fast curing, epoxy floor coating
Description	Steri-Flor CT is a self-leveling epoxy and binder resin designed for rapid return to service that creates a strongly bonded monolithic coating with moderate chemical resistance and good physical properties.
Features	<ul style="list-style-type: none"> • Zero VOCs • Low installation odor • Can be broadcasted for anti-skid surface • Stain resistance with excellent cleanability • Can be reinforced with fiberglass to increase crack bridging properties • USDA compliant • MMA Alternative
Typical Uses	<ul style="list-style-type: none"> • Food processing floors • Walk in freezers or coolers • Dike areas • Pulp and paper mills • Fast turnaround projects
Color	Available colors can be found in the Universal Color Pack section of Dudick Flooring Color Chart
Finish	Gloss
Primer	<p>For installation above 50F - Use Steri-Prime, Steri-Prime DTO, Primer 67LV or others as recommended by Dudick.</p> <p>For installations below 50F - Steri-Flor CT may be used direct to concrete. When as a binder resin for mortar, first prime using a neat coat at 10-12 mils Steri-Flor CT.</p>
Dry Film Thickness	<p>10 - 40 mils (254 - 1016 microns) DFT</p> <p>Greater thicknesses can be achieved with aggregate reinforcement. Contact Dudick for recommendations.</p>
Solids Content	By Volume 100%
Theoretical Coverage Rate	<p>1604 ft²/gal at 1.0 mils (39.4 m²/l at 25 microns)</p> <p>160 ft²/gal at 10.0 mils (3.9 m²/l at 250 microns)</p> <p>40 ft²/gal at 40.0 mils (1.0 m²/l at 1000 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	As Supplied : 4 g/L
Limitations	For interior use only
Chemical Resistance	<ul style="list-style-type: none"> • Dilute inorganic acids • Dilute alkali solutions • Cleaning & sanitizing solutions • Mineral oils • Salt solutions • Solvents

Steri-Flor CT

PRODUCT DATA SHEET



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Topcoats	Optional topcoats available depending on exposure, desired UV stability, and durability requirements. Contact Dudick for recommendations.
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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 be free of curing compounds and form release agents. Abrade the surface to achieve an ICRI CSP 2 or greater surface profile. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D-7234. All control joints must be honored. 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 Steri-Flor Fast Patch or 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
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PERFORMANCE DATA

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

Test Method	Results
Compressive Strength (ASTM C579)	10,000 PSI (68.9 MPa)
Flame Spread (ASTM D635)	<5mm, Self Extinguishing
Taber Abrasion (ASTM D4060)	120 mg
Tensile Bond Strength (ASTM D7234)	Cohesive failure of concrete

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 Part B, mix Part A for 1-2 minutes to ensure that any pigment or filler, which may have settled, is dispersed so that a uniform color is achieved. Combine Parts A and B, then mechanically mix for approximately 2-3 minutes to achieve a uniform color and consistency. Pour the mix directly onto the primed concrete. Do not mix partial kits.
Ratio	2:1 by volume, approximately

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.
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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	80°F (27°C)	110°F (43°C)	110°F (43°C)	90%
Optimum	70°F (21°C)	75°F (24°C)	75°F (24°C)	50%

Substrate temperature must be 5°F (3°C) above the dew point.

Application of Steri-Flor CT 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.	Pot Life	Minimum Recoat Time	Maximum Recoat Time	Ultimate Physical Characteristics
35°F (2°C)	30 Minutes	16 Hours	36 Hours	6 Days
50°F (10°C)	25 Minutes	8 Hours	24 Hours	4 Days
70°F (21°C)	20 Minutes	3 Hours	16 Hours	2 Days

The pot life 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 data.

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.
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CLEANUP & SAFETY

Cleanup	Use S-10 Cleaning Solvent, MEK, or Acetone to clean tools and equipment. DO NOT USE LACQUER THINNER.
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	5 Gallon (18.93 liter) kit Steri-Flor CT Part A 3.4 gal (12.9 liters) Steri-Flor CT Part B 1.6 gal (6 liters) 14.7 Gallon (55.6 liter) kit Steri-Flor CT Part A 2 x 5 gal (2 x 18.9 liters) Steri-Flor CT Part B 4.7 gal (17.8 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.

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PACKAGING, HANDLING & STORAGE

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.