Steri-Crete SLF

SYSTEM INFORMATION SHEET

1/8 to 3/16-inch (3 to 5 mm)

SYSTEM STEPS

1. Concrete Substrate
2. Shock-Crete® SL2
3. Flake Broadcast
4. Sealer 985

EASY APPLICATION

Low-temperature cure characteristics make for a flooring system that is easy to apply and quick to return-to-service.

CHEMICAL RESISTANCE

The Steri-Crete SLF system is broadly chemical resistant and withstands exposure to various fuels, fluids, lubricants, and cleaning agents.

LOW-EMITTING

Steri-Crete SLF is formulated with very low VOC content, promoting human and environmental health and helping to earn LEED 4.1 credits.

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	TEST METHOD	RESULTS
PERFORMANCE DATA	Abrasion Resistance (ASTM D4060)	50 mg loss
	Adhesion (ASTM D4541)	400 PSI (100% concrete failure)
	Coefficient of Friction (ASTM D2047)	Exceeds ADA recommendations
	Coefficient of Thermal Expansion (ASTM C531)	2.7 x 10^{-5}in/in/°F
	Compressive Strength (ASTM C579)	>7,250 PSI
	Flexural Strength (ASTM C580)	2,900 PSI
	MVT Resistance (ASTM F1869)	12 lbs/1,000 ft²/24hrs
	Tensile Strength (ASTM C307)	1,740 PSI
	*1,000 gm CS-17 wheel at 1,000 cycles	

SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT / DRY TIME*
Slurry	Shock-Crete SL2	3/32-1/8" (2.4-3.2 mm)	94 ft² at 3/32" per large kit (8.7 m² at 5 mm) 63 ft² at 1/8" per large kit (5.9 m² at 2 mm)	Part A Part B Filler Pigment Pack	Notched Squeegee/ Trowel / Looped Roller	16 hours (min) 24 hours (max)
The mixed product should be poured out evenly over the floor and then applied to the desired thickness with a notched squeegee, notched trowel, or gauge rake. Loop roll the material to aid leveling, air release, and to bring resinous material to the surface to accept broadcast media.						
Broadcast	Flake Broadcast	n/a	5-7 ft²/lb (24.4-34.2 m²/kg)	40 lb (18 kg) box	Buckets / Scraper / Vacuum	n/a
A full flake broadcast is **recommended** but partial broadcast may be used. Broadcast desired **flake blend** into wet material until rejection. After coating has reached walk-on cure time lightly scrape the floor and vacuum to remove excess flakes, then apply desired topcoat.						
Sealer	Sealer 985	10-15 mils (250-375 microns)	102-152 ft²/gal (2.5-3.7 m²/l)	Part A Part B	Short Nap Roller	2 hours (min) 24 hours (max)
The mixed material should be dipped and rolled to maximize working time or it can be be poured out evenly over the floor and then applied to the desired thickness with a notched squeegee. Back rolling with a 3/16" (0.48 cm) shed-resistant nap roller is recommended after the squeegee application has been executed. Roller covers should be changed every 30-45 minutes in order to keep longer working time. Brush application should only be employed for cut in, small areas, touch-ups, and repairs.						

*Recoat time @ 75°F (24°C)

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ALTERNATE TOPCOATS					
PRODUCT	**GENERIC TYPE**	**THICKNESS**	**THEORETICAL COVERAGE RATE**	**PACKAGING**	**APPLICATION EQUIPMENT**
Sealer 35	**High Wear Aliphatic Polyurethane**	**3-4 mils (75-100 microns)**	**481-361 ft²/gal (8.9-11.8 m²/l)**	**Part A Part B**	**Short Nap Roller**
Sealer 50	**Fluoropolymer Urethane**	**1.5-2 mils (38-50 microns)**	**240-320 ft²/gal (6-8 m²/l)**	**Part A Part B**	**Short Nap Roller**
Sealer 200WB	**Waterborne Aliphatic Urethane**	**3-4 mils (75-100 microns)**	**200-260 ft²/gal (5-6.4 m²/l)**	**Part A Part B**	**Short Nap Roller**

INSTALL

This document is meant as a guideline for the installation of the system. Contact Carboline Technical service for further assistance prior to the installation of the system.

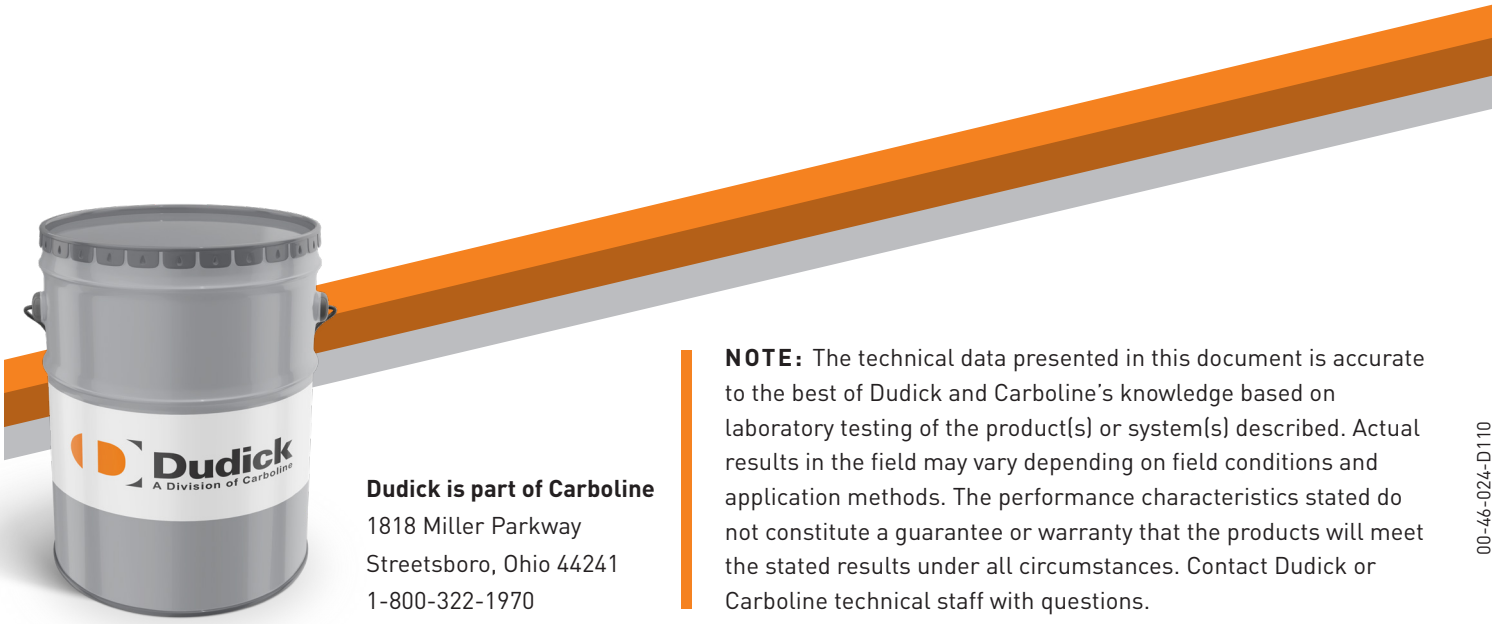
SURFACE PREPARATION

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 5 surface profile. The prepared surface should have a nominal tensile strength of 250 psi (1.72 MPa) per ASTM D7234. Filled joints and cracks in the concrete may be coated, but if movement occurs the coating will crack with the movement of the concrete.

Concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D4263. If moisture is found to be present, contact Dudick for further recommendations.

MIXING

Specific mixing instructions for each product can be found on its corresponding Product Data Page.



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NOTE: The technical data presented in this document is accurate to the best of Dudick and Carboline's knowledge based on laboratory testing of the product(s) or system(s) described. Actual results in the field may vary depending on field conditions and application methods. The performance characteristics stated do not constitute a guarantee or warranty that the products will meet the stated results under all circumstances. Contact Dudick or Carboline technical staff with questions.

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