

SELECTION & SPECIFICATION DATA

Generic Type	Two-component, nano enhanced, static dissipative, hybrid fluoropolymer sealer
Description	A premium fluoropolymer urethane sealer/topcoat that offers the outstanding color stability, resistance to UV degradation, and stain resistance, known industry wide to be inherent of fluoropolymer chemistry.
Features	<ul style="list-style-type: none"> • 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 certificates available upon request) • Meets SCAQMD Rule 1113 for VOC content • Excellent Stain Resistance
Typical Uses	<ul style="list-style-type: none"> • Military Installations • Battery Plants • E.V. Manufacturing • Technology Facilities
Color	Translucent Clear
Finish	Satin
Primer	<p>Steri-Prime, Primer 67LV, Semstone 110, or others as recommended by Dudick.</p> <p>Other epoxy basecoats may be used based on exposure and environment. Contact a Dudick representative for recommendations.</p>
Dry Film Thickness	2 - 4 mils (51 - 102 microns) DFT
Solids Content	By Volume 45%
Theoretical Coverage Rate	<p>722 ft²/gal at 1.0 mils (17.7 m²/l at 25 microns)</p> <p>361 ft²/gal at 2.0 mils (8.9 m²/l at 50 microns)</p> <p>180 ft²/gal at 4.0 mils (4.4 m²/l at 100 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	As Supplied : <50 g/L
Chemical Resistance	<ul style="list-style-type: none"> • N-Methylpyrrolidone (NMP) • Dimethyl Sulfoxide (DMSO) • Betadine • Oils • Gasoline • Jet Fuel • Sodium Hydroxide - 50% • Bleach Solutions • Solvents • Sulfuric Acid - 50% • Skydrol • Hydrogen • Peroxide

Sealer 50 TSD

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Concrete

For use as a thin film system directly over epoxy primer: 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 80-100 grit sandpaper or the visual standard, CSP-1/2 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 250 psi per ASTM C1583-04.

Refer to the selected system information sheet for concrete surface preparation requirements when used as part of a system.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
ASTM D7324	>350 psi (Substrate Failure)
Impact Resistance (Direct), ASTM D2794	> 160 inch pounds
Impact Resistance (Indirect), ASTM D2794	> 160 inch pounds

Conforms to ANSI/ESD S20.20-2020 when tested according to ANSI/ESD STM7.1

Static dissipative: $10^{>6}$ to 10^8 ohms

*This product does not contain any substances subject to Authorization under EU REACH (Annex XIV), nor does it contain any Substances of Very High Concern (SVHC) as defined by the European Chemicals Agency (ECHA)

MIXING & THINNING

Mixing

Mix Sealer 50 Part A separately for approximately 1 minute before adding Part B. Add Part B to Part A and mix thoroughly for 2-3 minutes or until fully blended to achieve a uniform consistency.

It is not recommended to mix partial kits.

Ratio

24:1 by volume

Pot Life

2 hours @ 55°F (13°C)

60 minutes @ 75°F (24°C)

45 minutes @ 90°F (32°C)

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Brush & Roller (General)

Use a short-nap mohair roller cover with solvent resistant core. For best results, condition roller before application to minimize lint or loose fibers. A high quality solvent resistant brush may be used for hard to reach areas.

APPLICATION CONDITIONS

Condition	Surface	Humidity
Minimum	55°F (13°C)	40%
Maximum	100°F (38°C)	90%

Substrate temperature must be 5°F (3°C) above the Dew Point.

Application of Sealer 50 in direct sunlight may lead to blistering, pinholes, or wrinkling due to out-gassing of air in the concrete and high substrate temperatures. Double priming, shading or evening application may be required.

Caution: This product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and moisture contact until fully cured. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

CURING SCHEDULE

Surface Temp.	Tack Free	Minimum Recoat Time	Foot Traffic	Light Traffic	Heavy Traffic/ Chemical Spillage
75°F (24°C)	6.5 Hours	12 Hours	12 Hours	24 Hours	72 Hours

In order to prevent curing problems, thorough and uniform air movement and/or ventilation must be maintained until the system has fully cured. Refer to cure time listed in product data sheet.

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 to clean tools and equipment.

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

PACKAGING, HANDLING & STORAGE

Packaging	1 Gallon Kits: Part A: .96 Gallons (in a 1 gal can) Part B: .04 Gallons (in a 1 pint can) 2 Gallon Kits: Part A: 1.92 Gallons (in a 3.5 gal steel pail) Part B: .08 Gallons (in a pint can)
Shelf Life	6 months @ 50°F-75°F (10°C-24°C) When stored in their original, unopened containers. Excessive heat may cause premature gelling, reduce working time and shelf life. Note: Sealer 50 Part B contains aliphatic isocyanates that will react with moisture. Partially used containers should be blanketed with nitrogen and tightly sealed if prolonged storage is anticipated.
Storage	All products should be stored in a cool, dry area away from open flames, sparks and other hazards. 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 may occur.

Sealer 50 TSD

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Shipping Weight (Approximate)	1 gallon kits: 13 lbs
	2 gallon kits: 27 lbs

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.