

SELECTION & SPECIFICATION DATA

Generic Type	Two-component, nano enhanced, hybrid fluoropolymer sealer
Description	A premium fluoropolymer urethane sealer/topcoat that offers the outstanding color stability and resistance to UV degradation known industry wide to be inherent of fluoropolymer chemistry. Toughness and resistance to impact and staining are also characteristic of Sealer 50.
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 Color Stability • Excellent Stain Resistance
Color	Clear and Standard Colors Standard Color Chart available upon request.
Finish	Gloss
Primer	Primer 67, Primer 67LV or others as recommended by Dudick. Other epoxy basecoats may be used based on exposure and environment. Contact a Dudick representative for recommendations.
Dry Film Thickness	1.5 - 2 mils (38 - 51 microns) DFT
Typical Uses	<ul style="list-style-type: none"> • Clean Rooms • Warehouse • Floors • Airplane Hangars • Hospitals / Operating Rooms • Maintenance
Solids Content	By Volume 30%
Theoretical Coverage Rate	481 ft ² /gal at 1.0 mils (11.8 m ² /l at 25 microns) 321 ft ² /gal at 1.5 mils (7.9 m ² /l at 38 microns) 241 ft ² /gal at 2.0 mils (5.9 m ² /l at 50 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : <50 g/L
Chemical Resistance Tables	<ul style="list-style-type: none"> • Betadine • Oils • Gasoline • Jet Fuel • Sodium Hydroxide - 50% • Bleach Solutions • Solvents • Sulfuric Acid - 50% • Skydrol • Hydrogen • Peroxide

Sealer 50

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Concrete | Refer to System Information Sheet where Sealer 50 is being used for concrete surface preparation requirements.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Impact Resistance (Direct), ASTM D2794	> 160 inch pounds
Impact Resistance (Indirect), ASTM D2794	> 160 inch pounds
Pencil Hardness	2H (Scratch)

MIXING & THINNING

Mixing | Mix Sealer 50 Component A separately for approximately 1 minute before adding Component B. Add Component B to Component A and mix thoroughly for 2-3 minutes to achieve a uniform consistency.
DO NOT MIX PARTIAL KITS.

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)	0%
Maximum	100°F (38°C)	70%

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.

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

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 Component 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.

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 Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. 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.