

SELECTION & SPECIFICATION DATA

Generic Type	Engineered Hybrid Sealer
Description	Sealer 80 is an isocyanate free, ultra-durable, fast-cure coating that provides outstanding color and gloss retention. It combines the chemical resistant properties of epoxies with the weathering characteristics of acrylic-polyurethanes giving it a tightly cross-linked film resulting in a finish with outstanding barrier properties against Vaporized Hydrogen Peroxide .
Features	<ul style="list-style-type: none"> • Isocyanate free • Fast cure • Excellent durability • Low Dirt Pickup • Meets IEEE ANSI C57.12.29-2005 Standard For Pad Mounted Equipment
Color	Carboline's 1864 (White), Dudick's #601 (Eggshell) Other colors can be made available available upon request. Contact your Dudick Representative for availability.
Finish	Gloss
Primer	Steri-Prime, Primer 67LV, Steri-Prime DTO, and others as recommended by your Dudick representative.
Dry Film Thickness	3 - 7 mils (76 - 178 microns) per coat
Solids Content	By Volume 75% +/- 2%
Surface Burning Characteristics	<ul style="list-style-type: none"> • Flame Spread Index: 0 • Smoke Developed Index: 10
Theoretical Coverage Rate	1203 ft ² /gal at 1.0 mils (29.5 m ² /l at 25 microns) 401 ft ² /gal at 3.0 mils (9.8 m ² /l at 75 microns) 172 ft ² /gal at 7.0 mils (4.2 m ² /l at 175 microns) Allow for loss in mixing and application.
VOC Value(s)	<ul style="list-style-type: none"> • As Supplied : 1.8 lbs/gal (216 g/L) mixed • Thinner 10 : 13 oz/gal: 2.29 lbs/gal (275 g/L) These are nominal values and may vary slightly with color.
Dry Temp. Resistance	Continuous: 302°F (150°C) Non-Continuous: 338°F (170°C) Some discoloration and loss of gloss may be experienced at elevated temperatures.

SUBSTRATES & SURFACE PREPARATION

General	Surface must be clean and dry. Ensure that the prepared surface is free of any contaminants. Refer to the recommended primer's product data sheet for detailed surface preparation requirements
Steel	For use over recommended primer: Follow specific primer recommendations For use direct-to-metal: SSPC-SP6 with a 1.5-2.5 mil (37.5-62.5 micron) surface profile for optimum performance.

Sealer 80

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Concrete | Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in the specified primer's product data sheet. Consult your Dudick representative for more information.

MIXING & THINNING

Mixing | Power mix components separately then combine and power mix.

Thinning | May be thinned up to 10% (13 oz/gal) with Carboline Thinner #10 for spray, and Thinner 214, 215, or 238 for brush and roll.

Ratio | 2.2:1 by volume.

Pot Life | 8 hours at 75°F (23°C) and less at higher temperatures. Material is moisture sensitive. If left uncovered for extended periods or under very high humidity conditions, check for and remove any skinning that may occur.

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.

Spray Application (General) | This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers.

Airless Spray | Pump Ratio: 30:1 (min.)
Volume Output: 2.5 gpm min. (11.5 l/minute min.)
Material Hose: ½" I.D. min. (12.5 mm min.)
Tip Size: 0.017-0.021" (0.43-0.53 mm)
Output Pressure: 1500-2000 psi (1-1.4 kg/mm²)

Brush & Roller (General) | Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling.

Brush | Use a medium natural bristle brush.

Roller | Use a short to medium-nap mohair roller cover with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	20%
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)	90%

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Protect from high humidity, dew and direct moisture contact until it is dry to handle. 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 staining of the product.

CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Recoat	Dry to Handle
35°F (2°C)	8 Hours	24 Hours	30 Hours
75°F (24°C)	2 Hours	6 Hours	18 Hours

These times are based on recommended coverage rates and 50% RH. Curing under low humidity conditions will extend times. Maximum recoat for this product is 30 days. After this period it is best to abrade the surface prior to recoating.

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 Carboline Thinner 2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.
Ventilation	When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A: 24 months at 75°F (24°C) Part B: 24 months at 75°F (24°C) *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	40 -110°F (4°C-43°C) 0-90% Relative Humidity
Storage	Store Indoors. KEEP DRY. This product is solvent based and not affected by excursions below these published storage temperatures, down to 10°F, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.
Shipping Weight (Approximate)	1 Gallon Kit - 13 lbs. (6 kg) 5 Gallon Kit - 67 lbs. (30 kg)

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PACKAGING, HANDLING & STORAGE

Flash Point (Setaflash)

- Part A: 96°F (36°C)
- Part B: 75°F (24°C)
- Thinner 10: 83°F (28°C)
- Thinner 214: 102°F (38°C)
- Thinner 215: 128°F (53°C)
- Thinner 238: 102°F (38°C)
- Thinner 2: 23°F (-5°C)

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.