Sealer 35

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	High solids, hard-wearing, aliphatic polyurethane sealer
Geographical Availability	North America
Description	A multi-component, aliphatic polyurethane coating. Sealer 35 offers the outstanding color stability and resistance to UV degradation known industry wide to be inherent of aliphatic urethane chemistry. Toughness, impact resistance, and stain resistance are inherent qualities of this topcoat.
Features	• High Solids • Excellent Color Stability • Good Stain Resistance • VOC Compliant • Low Odor • High Wear Filler may be incorporated for increased abrasion resistance
Typical Uses	• Clean Rooms • EV Battery Production • Warehouse Floors • Aircraft Hangars • General maintenance
Color	Clear or can be pigmented with Universal Color Packs Color Chart available upon request.
Finish	Gloss When using High Wear Filler the finish will be reduced to a semi-gloss-satin sheen depending on the amount added.
Primer	Applied as a topcoat for Steri-series epoxies. Other epoxy basecoats may be used based on exposure and environment. Contact a Dudick representative for recommendations.
Dry Film Thickness	3 - 4 mils (76 - 102 microns) DFT Do not exceed 6 mils wet.
Solids Content	By Volume 90% +/- 3%
Theoretical Coverage Rate	1444 ft²/gal at 1.0 mils (35.4 m²/l at 25 microns) 481 ft²/gal at 3.0 mils (11.8 m²/l at 75 microns) 361 ft²/gal at 4.0 mils (8.9 m²/l at 100 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 173 g/L

SELECTION & SPECIFICATION DATA

Chemical Resistance

- n-Methylpyrrolidone(NMP)
- Betadine
- Beer
- Brake Fluid
- Citric Acid
- Iodine
- Water
- Solvents
- Sodium Hydroxide - 50%
- Sulfuric Acid - 20%
- Dilute Organic/Inorganic Acids
- Oils
- Gasoline
- Jet Fuel

SUBSTRATES & SURFACE PREPARATION

Concrete

Refer to the surface preparation guidance provided for the prime/base coat.

When recoating Sealer 35, all sheen must be dulled by abrading prior to application of a subsequent coat.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Abrasion, ASTM D-4060, CS-17 Wheel	20 mg
Gloss @ 60°	85-90
Pencil Hardness	2H

*without high wear filler

MIXING & THINNING

Mixing

- Mix Sealer 35 Part A separately to ensure no settling has occurred before adding Part B. Once combined, mix thoroughly until homogenous.
- **When using Universal Color Packs in a 2.5 gallon kit** after mixing Parts A & B, add 1 Universal Color Pack (F101) and mix until homogenous.
- **When using Universal Color Packs in a 5 gallon kit** after mixing Parts A & B, pour half of the mixed material back into the Part B container, then add 1 Universal Color Pack (F101) per 2.5 gallons of mixed material and mix until homogenous.

When using High Wear Filler (F150) or fine aluminum oxide, add 20-32 volumetric ounces (2-4 lbs) per 2.5 gallon kit, or 50-80 (5-8 lbs) volumetric ounces per 5 gallon kit.

Thinning | Add up to 5% Thinner 225E (acetone) by volume for increased flow and leveling.

Ratio | 4:1 by volume

Pot Life | 2 hours @ 75ºF (24ºC)

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	Material	Surface	Ambient	Humidity
Minimum	65°F (18°C)	50°F (10°C)	50°F (10°C)	40%
Maximum	85°F (29°C)	110°F (43°C)	110°F (43°C)	80%

Substrate temperature must be 5ºF (3ºC) above the Dew Point.
Application in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures.
Caution: This product is moisture sensitive until fully cured. Protect from high humidity, dew and moisture contact until fully cured. Application and/or curing in humidity's above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or micro-bubbling of the product.

CURING SCHEDULE

Surface Temp.	Dry to Recoat	Foot Traffic	Light Traffic	Cure for Service
75°F (24°C)	8 Hours	16 Hours	24 Hours	5 Days

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.
The surface must be abraded before recoating with itself or any other product.

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, Thinner #10(xylene), or Thinner 225E(acetone) 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	• **Gloss 2.5 gallon kit** • Part A - 2 gal (7.58 liters) • Part B - 0.5 gal (1.9 liters) • *For colors, 1 Universal Color Pack • **Gloss 5 gallon kit** • Part A - 4 gal (15.14 liters) • Part B - 1 gal (3.79 liters) • *For colors, 2 Universal Color Pack Include High Wear Filler for high abrasion use. (Optional) High Wear Filler - 8 lb (3.63 kg) can
Shelf Life	6 months @ 50°F-75°F (10°C-24°C) Excessive heat may cause premature gelling, reduce working time and shelf life. *Note:* **Sealer 35 Part A** 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.

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.