Sealer 985 SS

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	High-solids polyaspartic floor coating
Description	This slower setting, high-solids, polyaspartic was developed with excellent chemical resistance, adhesion, and resistance to UV degradation for floor coating applications. It is very low VOC and virtually odor free.
Features	• Quick return to service (3-5 hours for foot traffic) • Self-leveling • Smooth, gloss finish • Flexible with high impact resistance • Excellent UV protection • Excellent chemical and abrasion resistance • Extended working time • 95% volume solids, low VOC, low odor • Suitable for use in USDA inspected facilities • Available in custom colors • Class A fire rating per ASTM E84
Color	Clear(0000), Rapid Tint Bases for custom matches, and Universal Color Pack colors found on the Dudick Flooring Color Chart are available Universal Color Packs may be used to pigment Clear(0000) at a rate of 1 color pack per mixed 2 gallons.
Finish	Gloss
Primer	Steri-Prime WB or other epoxy primers as recommended.
Dry Film Thickness	10 - 15 mils (254 - 381 microns) per coat
Solids Content	By Volume 95% +/- 2%
Theoretical Coverage Rate	1524 ft²/gal at 1.0 mils (37.4 m²/l at 25 microns) 152 ft²/gal at 10.0 mils (3.7 m²/l at 250 microns) 102 ft²/gal at 15.0 mils (2.5 m²/l at 375 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 0.12 lbs/gal (15 g/L)
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Concrete: 160°F (71°C) Discoloration and loss of gloss occurs above 180°F (82°C) but does not affect performance.

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 accordance with ICRI CSP 2-5. Priming is required. Contact your Carboline representative or Technical Service for specific product recommendations.

Contact Carboline for advice if there are impurities, such as oils, excess moisture, etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Elongation ASTM D412	75%
Flexibility ASTM D522	Passes 1/8" mandrel bend
Hardness ASTM D2240	Shore D 45
Impact Resistance	160 inch-lbs
Taber Abrasion ASTM D4060 1 kg weight/CS17 wheel/1000 cycles	70 mg loss
Tear Strength ASTM D624	~450 lbf/in
Tensile Strength ASTM D412	3000 psi

MIXING & THINNING

Mixing | Power mix separately, then combine and power mix.
DO NOT MIX PARTIAL KITS.

Thinning | Thinning is normally not required.
Thinner 25, 214, or 215 may be added up to 2 oz. per gallon.

Ratio | 1:1

Pot Life | 45-60 minutes 75 ºF (24 ºC) when in the pail or roller tray.

Working Time | 20-30 minutes 75 ºF (24 ºC)

Once spread onto the floor, this product begins to dry very quickly. Finish rolling or and broadcast media should be done within this time frame.

APPLICATION PROCEDURES

General | Fill voids and bug holes prior to application where a self-leveling, smooth finish is desired.

APPLICATION PROCEDURES

Application

Mixed material can 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 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 1-1.5 hours in order to keep longer working time. Brush application should only be employed for cut in, small areas, touch-ups, and repairs.

Caution: This product in the liquid stage is moisture sensitive and needs to be protected from high humidity, dew and direct moisture contact until cured to a firm state. Application and/or curing in humidity above maximum or exposure to moisture from rain or dew may result in a loss of gloss, micro bubbling and/or blistering of the product.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	35°F (2°C)	35°F (2°C)	35°F (2°C)	30%
Maximum	80°F (27°C)	120°F (49°C)	120°F (49°C)	85%

Humidity levels below 30% will require longer cure times.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Dry Time (Light Foot Traffic)	Maximum Recoat Time	Light Vehicular	Final Cure
75°F (24°C)	3 Hours	3 Hours	24 Hours	3 Days	7 Days
90°F (32°C)	2 Hours	2 Hours	24 Hours	3 Days	7 Days

Cure times based on 10-15 mil film thickness

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

Safety

Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Packaging

2 Gallon Kit
Part A - 1 gallon
Part B - 1 gallon
10 Gallon Kit
Part A - 5 gallons
Part B - 5 gallons

Shelf Life

24 Months in unopened container

PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity	60-100 °F (16-38 °C) 0-100% Relative Humidity
Storage	Store Indoors This product is solvent based and not affected by excursions below these published storage temperatures, down to 10 °F (-12 °C), for the 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)	2 Gallon Kit - Approx. 21 lbs (9.5 kg) 10 Gallon Kit - Approx. 105 lbs (47.6 kg)
Flash Point (Setaflash)	Part A: > 200 ° F (93 °C) Part B: > 200 ° F (93 °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 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.