Steri-Seal HC

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Highly chemical resistant novolac epoxy coating
Description	A specialized Novolac epoxy hybrid specifically designed for high containment laboratories, such as BSL-4/3Ag facilities. It provides a seamless, durable, and hygienic flooring solution that meets the stringent requirements of pharmaceutical and research laboratories. It is highly durable against heavy foot and equipment traffic, insuring long lasting performance.
Features	• Low installation odor • High containment floor coating • High Chemical & Abrasion Resistance • USDA Compliant • Anti-Microbial Agents are available as an option
Typical Uses	• High Containment Research Facilities • Clean Rooms • Food & Beverage Processing Facilities • Warehouses/Storage Areas • Manufacturing & Waste Water Treatment Plants • Maintenance Garages • Pharmaceutical & Research Facilities
Color	Standard Dudick Architectural Colors Color chart available on request or online at Dudick.com
Primer	Steri-Prime series or Primer 67 series
Dry Film Thickness	10 - 20 mils (254 - 508 microns) per coat
Solids Content	By Volume 100%
Theoretical Coverage Rate	1604 ft²/gal at 1.0 mils (39.4 m²/l at 25 microns) 160 ft²/gal at 10.0 mils (3.9 m²/l at 250 microns) 80 ft²/gal at 20.0 mils (2.0 m²/l at 500 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 90 g/l
Chemical Resistance	• Decontamination Solutions • Dilute Inorganic Acids • Aliphatic Hydrocarbons • Sodium Hydroxide • Salt & Brine Solutions • Mineral Oils
Topcoats	**Optional Sealers:** If enhanced scuff and scratch resistance is desired, optional topcoat and urethane sealers are available. Consult your Dudick or Carboline representative or technical service for recommendations specific to the service environment.

SUBSTRATES & SURFACE PREPARATION

Concrete or CMU

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 (per SSPC SP-13/NACE No.6). Surface texture should be similar to 40-60 grit sandpaper or the visual standard, CSP 3 from the International Concrete Repair Institute (ICRI) with pea gravel exposed. The prepared surface shall have a minimum tensile strength of 250 PSI per ASTM D7234.

All concrete substrates must be checked for moisture and pass the ASTM D4263 Plastic Sheet Test prior to product application.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Flame Spread ASTM D635	<5 mm / self extinguishing
Fungus Resistance	No growth
Specular Gloss Factor ASTM D523	85-90
Taber Abrasion ASTM D4060	120 mg
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete
Tensile Strength, Binder ASTM D638	2,870 PSI (20 MPa)

MIXING & THINNING

Mixing

Mechanically mix the Part A separately for 1-2 minutes to disperse any pigments or fillers which have settled prior to adding the Part B.
Add the correct amount of Part B and mix until a uniform color is achieved.

Ratio

1.85:1 ratio by volume (A:B)

Pot Life

75 minutes @ 50ºF (10ºC)
50 minutes @ 75ºF (23ºC)
25 minutes @ 90ºF (32ºC)

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.

Application Procedure

Once mixed, pour the material directly onto the primed concrete. The mix should be spread to a 20 mil thickness with a serrated squeegee, notched trowel or gauge rake. After spreading the material to the proper thickness, backroll with short-napped woven roller cover and/or roll with a spike roller to level and deaerate.

To terminate work, use duct tape to set a straight edge and remove the tape when the topping becomes slightly tacky.
Start the next work period butting into this area. Permanent terminating lines should be made into the saw cuts in the concrete.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	80°F (27°C)	110°F (43°C)	110°F (43°C)	90%

Substrate temperature must be 5ºF (3ºC) above the dew point.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Maximum Recoat Time	Cure Time
50°F (10°C)	16 Hours	5 Days	4 Days
75°F (24°C)	10 Hours	3 Days	24 Hours
90°F (32°C)	6 Hours	2 Days	20 Hours

CLEANUP & SAFETY

Cleanup | Use S-10 Cleaning Solvent or Carboline Thinner 2 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.

Ventilation | Ventilation 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. Use MSHA/NIOSH approved air respirators as needed.

Caution | Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging

1 Gallon Kits:
Part A: 0.65 Gallons (in a 1 gal can)
Part B: 0.35 Gallons (in a 1 gal can)
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5 Gallon Kits:
Part A: 3.25 Gallons (in a 5 gal pail)
Part B: 1.75 Gallons (in a 3.5 gal pail)

Shelf Life

Part A: 12 months
Part B: 12 months

Storage | Warning: All Dudick products classified by DOT labels as either white, yellow or red labels must not be mixed or stored together as an explosive reaction may occur.
Store all products in a cool, dry area away from open flames, sparks or other hazards.

Shipping Weight (Approximate)

1 gallon kits: 11.9 lbs
5 gallon kits: 57.4 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 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.