



DUDICK, INC.
 Corporate Offices
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STERI-SEAL HC

**Multifunctional
 Pigmented High Chemically
 Resistant Epoxy Coating for Floor
 Applications
 10-20 Mil Thickness**

GREEN BUILDING FEATURES

*** Steri-Seal HC contributes toward satisfying credit MR 5 and EQ 4.2 under LEED.**

Low installation odor
 Processed and manufactured in Ohio
 High containment floor coating

APPLICATION FEATURES

High Chemical & Abrasion Resistance
 Excellent as a Floor or Wall Coating
 USDA & FDA Compliant
 Anti-Microbial Agents are available as an option

TYPICAL APPLICATIONS

Clean Rooms
 Food & Beverage Processing Facilities
 Warehouses/Storage Areas
 Manufacturing & Waste Water Treatment Plants
 Maintenance Garages
 Pharmaceutical & Research Facilities



The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a nationally accepted benchmark for Design, Construction, and Operation of High Performance Green Buildings.

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CHEMICAL RESISTANCE

Dilute Inorganic Acids

 Aliphatic Hydrocarbons
 Sodium Hydroxide
 Salt & Brine Solutions
 Mineral Oils

*Please consult Dudick, Inc. for complete chemical resistance information.

SUBSTRATES

Concrete
 CMU
 Gypsum Board*
 Cement Board*

*Consult Dudick, Inc. about exact procedure dependent on board characteristics.

COLORS: Available in Standard Floor Colors:

Light Gray	Beige
Medium Gray	Dark Blue
Dark Gray	Light Blue
Tan	Dark Green
Tile Red	Light Green

Custom Colors Available, consult Dudick, Inc. for complete information.

* = Products are not reviewed or certified under the LEED Rating System. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual

products or brands. For more information on LEED, visit www.usgbc.org/leed.

TYPICAL PHYSICAL PROPERTIES

Taber Abrasion ASTM D4060	120 mg
Tensile Strength, Binder ASTM D638	2,870 PSI (20 MPa)
Specular Gloss Factor ASTM D523	85-90
Flame Spread ASTM D635	<5 mm / self extinguishing
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete
Fungus Resistance	No growth
U.S. Mil Std. 810E	

SPECIFICATIONS

Steri-Seal HC shall be an epoxy coating applied in one or two coats as manufactured by Dudick, Inc.

THE STERI-SEAL HC SYSTEM

Steri-Seal HC uses a moisture-tolerant primer and one or two coats of low odor epoxy coating to achieve protection for concrete and other substrates. The unique hybrid binder in **Steri-Seal HC** provides high film integrity, and excellent chemical resistance required for prolonged substrate protection.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

SQUARE FEET PER GALLON**	
PRIMER See specified Primer Data Sheet	
STERI-SEAL HC	
Floor Coating	140-150 ft. ² @ 10-12 mils

**Quantities shown are for estimating purposes only. Coverages will vary due to porosity of substrate.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete: Concrete must be prepared mechanically to remove the surface laitance. Oils, grease or other contaminants must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents. Surface texture should be similar to 60-80 grit sandpaper or the visual standard, CSP-3 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D7234.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D4263 or specified method.

Additional surface preparation will be required if a 60-80 grit texture is not achieved and the surface laitance not completely removed with the first mechanical preparation procedure.

CMU: Dudick, Inc. recommends CMU surfaces are lightly abrasive blasted to clean CMU block and to provide a 60-80 grit sandpaper texture of the mortar joints. Care must be taken not to damage CMU.

Wall Boards: Consult Dudick, Inc. for preparation methods.

Mechanical preparation removes laitance, exposing honeycombs or voids beneath the surface that must be filled with ***Scratch-Coat**. (Refer to specified Dudick **Scratch-Coat** separate product bulletin).

ENVIRONMENTAL CONDITIONS

Temperature of the concrete substrate must be between 50°F and 110°F.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F above the Dew Point.



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PRIMING

The following Primers are compatible with **Steri-Seal HC: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.**

STERI-SEAL HC 1-GALLON MIX RATIO (BY VOLUME)

Component A 86 fl.oz.
 Component B 42 fl. oz.

Steri-Seal HC Pot Life & Cure Time

Temperature	Work Life	Cure Time	Recoat	
			Min.	Max.
50°F	75 min.	96 hrs.	16-18 hrs. 120 hrs.	
75°F	50 min.	24 hrs.	10-12 hrs. 72 hrs.	
90°F	25 min.	20 hrs.	6-8 hrs. 48 hrs.	

Prior to adding the **Component B**, mechanically mix the **Steri-Seal HC Component A** separately for 1-2 minutes to disperse any pigments or fillers which have settled.

Add the correct amount of **Component B** and mix until a uniform color is achieved.

FLOOR TOPPING APPLICATION

Spray or roller apply one or two coats @ 10-12 mils WFT each coat. Allow sufficient dry time between coats. Roller application may leave a high texture finish.

Listed below are general spray equipment guidelines for the application of this product. Job site

conditions may require modifications to these guidelines to achieve the desired results.

***This is a high solids viscous coating and may require adjustments in spray techniques to achieve the desired finish texture. The following spray equipment has been found suitable.**

Pump Ratio	45:1 (min)*
GPM Output	3.0 (min)
Material Hose	½" I.D. (min)
Tip Size	.019"-0.27"
Output PSI	3,000-3,500
Filter Size	30 mesh

***Anti-stick Fluoropolymer packings are recommended and available from the pump manufacturer.**

Heated plural component spray equipment or thinning will aid in application of Steri-Seal HC – Consult Dudick, Inc. for additional information.

Important - With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by washing with warm water and detergent.

The pot life of **Steri-Seal HC** system components will depend upon the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the Work Life & Cure Time charts.

Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

Application of **Steri-Seal HC** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading or evening application may be required. Consult a Dudick representative. **Steri-Seal HC** system is intended for interior use only.

OPTIONAL SEALERS

For **improved** UV stability, abrasion, stain resistance and chemical resistance. A Sealer can be applied over **Steri-Seal HC**. Consult Dudick for best options.

CLEAN UP

Use **S-10 Cleaning Solvent** to clean tools and equipment.

SHIPPING

Refer to Material Safety Data Sheets.

STORAGE

Warning: All Dudick products classified by DOT with white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.

All products should be stored in a cool, dry area, away from open flames, sparks, or other hazards. When properly stored in their original, unopened containers at 50°F-75°F, **Steri-Seal HC** will have a six-month shelf life. Storage direct sunlight or excessive heat will reduce working time and shelf life.

SAFETY

M.S.D.S: Material Safety Data Sheets must always be read before using products. **Steri-Seal HC** is intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied.

If **Steri-Seal HC** materials are to be applied by your own personnel or by a third party contractor, please be sure that they are aware of the following safety precautions:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.
- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.
- Suitable respirators should be used during application.
- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. **Steri-Seal HC** liquid can be removed with **S-10 Cleaning Solvent, MEK, or Acetone.**
- Keep open flames and sparks away from the area where materials are being mixed and applied.
- If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If swallowed, do not induce vomiting; call a physician immediately.

NOTE: Dudick, Inc. ("Dudick") warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or sub-contractors shall be performed



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in a workmanlike manner. Dudick's sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK'S NEGLIGENCE. This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

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