



**DUDICK, INC.**  
 Corporate Offices  
 1818 Miller Parkway  
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**STERI-SEAL HC**

**100% Solids, Multi Functional,  
 Pigmented High Chemically  
 Resistant Epoxy Coating, For  
 Floor, Ceiling & Wall Applications  
 10-20 Mil Thickness**

**GREEN BUILDING FEATURES**

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

- Low emitting material
- No volatile organic compounds
- Low installation odor
- Processed and manufactured in Ohio

**APPLICATION FEATURES**

- High Chemical & Abrasion Resistance
- Excellent as a Floor or Wall Coating
- USDA & FDA Compliant
- Contains Anti-Microbial Agents

**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](http://www.usgbc.org/leed).

**TYPICAL PHYSICAL PROPERTIES**

Taber Abrasion ASTM D-4060	120 mg.
Tensile Elongation ASTM D-638	10%
Tensile Strength, Binder ASTM D-638	2,870 PSI (20 MPa)
Specular Gloss Factor ASTM D-523	85-90
Flame Spread extinguishing ASTM D635	<5 mm/self
Tensile Bond Strength ASTM D-4541	Cohesive Failure of Concrete
Fungus Resistance U.S. Mil Std. 810E	No Growth

**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**

<b>SQUARE FEET PER GALLON**</b>	
<b>PRIMER</b> See specified primer data sheet	
<b>STERI-SEAL HC</b>	
<b>Floor Coating</b>	<b>140-150 ft.<sup>2</sup> @ 10-12 mils</b>
<b>Wall Coating</b>	<b>200-250 ft.<sup>2</sup> @ 5-8 mils</b>

\*\*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 225 PSI per ASTM D-4541.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263 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.

**PRIMING (refer to specified primer data sheet)**



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**STERI-SEAL HC MIX RATIO (BY VOLUME)**

Component A 1 gallon  
 Component B 62 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.

**WALL APPLICATION**

Spray or roller apply two coats @ 6-8 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: 1/2" I.D. (min)  
 Tip Size: .019"- .027"  
 Output PSI: 3000-3500  
 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.

## 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 one-year 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 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,



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INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABILITY 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.

4/18/08