



## DUDICK, INC.

Corporate Offices  
1818 Miller Parkway  
Streetsboro, OH 44241  
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www.dudick.com

## STERI-SEAL HB (High Build)

100% Solids, Multi Functional, Spray  
Applied Pigmented High Build  
Chemically Resistant Epoxy Coating, For  
Ceiling & Wall Applications  
30-40 Mil Thickness

### GREEN BUILDING FEATURES

**\* Steri-Seal HB 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 Ceiling & 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. LEED and related logo is a trademark owned by the U.S. Green Building Council and is used by permission.

### 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.
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
VOC ASTM D-3960	0.0 g/l

**SPECIFICATIONS**

**Steri-Seal HB** shall be an epoxy coating applied in one or two 15-20 mil coats as manufactured by Dudick, Inc.

**THE STERI-SEAL HB SYSTEM**

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

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

APPROXIMATE SQUARE FEET PER GALLON**	
PRIMER *See specified primer data sheet	
STERI-SEAL HB	
1 <sup>st</sup> Coat	80-100 ft <sup>2</sup> @ 15-20 mils
2 <sup>nd</sup> Coat	80-100 ft <sup>2</sup> @ 15-20 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 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).



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**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)**

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

Component A            1 gallon  
 Component B            48 fl. oz.

**Steri-Seal HB 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.	48hrs.

Prior to adding the **Component B**, mechanically mix the **Steri-Seal HB 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. Spray apply the first coat evenly to 15-20 mils WFT.

Apply a second coat of **Steri-Seal HB** after the first coat has cured tack free, (approximately 10 hours at 75° F).

\*If re-coat times are exceeded, contact your Dudick, Inc. representative.

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:                    40: 1 ratio  
 GPM Output:                    2.3 gpm  
 Material Hose:                 1/2" I.D. gpm  
 Tip Size:                         .015"-.021"  
 Output PSI:                     3000-4000 psi  
 Filter Size:                     60 mesh  
 Gun                                 Grayco Flex Plus

**\*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 HB – 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 HB** 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 HB** 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 HB** 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 HB** components will have a six-month shelf life. Storage in 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 HB** 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 HB** 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 HB** 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.



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**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, 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.

2/9/12