



## DUDICK, INC.

Corporate Offices  
1818 Miller Parkway  
Streetsboro, OH 44241  
330-562-1970  
800-322-1970  
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www.dudick.com

## STERI-GLASS

100% Solids, Fiberglass Reinforced,  
High Build Epoxy Wall System  
25-35 mils (.5-.9 mm)

### GREEN BUILDING FEATURES

\* Steri-Glass 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

No Static Cling  
Good Chemical & Abrasion Resistance  
Easily Cleaned and Decontaminated  
USDA & FDA Compliant



Contains Anti-Microbial Agents

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.

### TYPICAL APPLICATIONS

Clean Rooms for Pharmaceutical, Animal Research & Electronic Facilities  
Food & Beverage Processing Facilities  
Commercial Kitchens, Dishwasher & Waste Disposal Areas  
Healthcare Facilities, Operating Rooms, Scrub Rooms, Intensive Care & Therapy Areas

Animal Housing  
Restrooms and Shower Areas  
High Impact Walls

### CHEMICAL RESISTANCE\*

Dilute Inorganic Acids  
Aliphatic Hydrocarbons  
Sodium Hydroxide  
Salt & Brine Solutions  
Mineral Oils

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

### SUBSTRATES

Can be applied to a variety of substrates including those listed below:

Concrete CMU  
Gypsum Board Cement Board

\* = 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).

**COLORS:** Available in Standard 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.

\*\*Quantities shown are for estimating purposes only. Coverage's will vary due to porosity of substrate.

**TYPICAL PHYSICAL PROPERTIES**

Impact Resistance	>160 in. lb.
Gardner Impact Tester	
Taber Abrasion	92 mg.
ASTM D-4060	
VOC	0
ASTM D-3960	
Specular Gloss Factor	85-90
ASTM D-523	
Flame Spread	<5 mm/self extinguishing
ASTM D-635	
Tensile Bond Strength	Cohesive Failure
ASTM D-4541	of Concrete
Fungus Resistance	No Growth
U.S. Mil Std. 810E	

**PRODUCT DESCRIPTION**

**Steri-Glass** shall be a fiberglass reinforced epoxy wall system applied at 25-35 mils WFT as manufactured by Dudick, Inc. Materials shall be applied by brush, roller, or spray equipment in accordance with the manufacturer's recommended practices.

**THE STERI-GLASS SYSTEM**

**Steri-Glass** uses a moisture-tolerant primer, fiberglass reinforced bodycoat and subsequent topcoats of low odor epoxy resin to achieve high build and provide protection for concrete substrates.

**Bodycoat/Topcoat:** The unique fiberglass reinforced hybrid binder in the **Steri-Glass system** provides high film integrity, excellent chemical resistance and superior impact resistance for prolonged substrate protection.

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

THEORETICAL SQUARE FEET PER GALLON**	
PRIMER 67	
Primer	150-200 ft <sup>2</sup>
STERI-GLASS	
Bodycoat	150-200 ft <sup>2</sup>
1 <sup>st</sup> Topcoat	200-250 ft <sup>2</sup>
2 <sup>nd</sup> Topcoat*	200-250 ft <sup>2</sup>

\*Number of topcoats necessary is dependent upon specifications and/or to match an approved sample.

**APPLICATION INSTRUCTIONS**

**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.

**SURFACE PREPARATION**

**Concrete:** Concrete must be prepared mechanically to remove the 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. Surface texture should be similar to 80-100 grit sandpaper or the visual standard, CSP-1 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 200 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.

Additional surface preparation will be required if a 80-100 grit texture is not achieved and the surface laitance not completely removed with the first mechanical preparation procedure.

Abrasive blasting removes laitance, exposing honeycombs or voids beneath the surface which must be filled with **Scratch Coat 300** (Refer to separate product bulletin), or other approved Dudick materials.

**CMU:** All new concrete block must be properly cured before application of the primer. The concrete block must be prepared mechanically to remove the surface laitance.

The substrate must be checked for moisture prior to product application using Plastic Sheet Test, ASTM D-4263.

Patch all voids with **Scratch Coat 300** (Refer to separate product bulletin), or other approved Dudick materials.



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Clean the surface to remove any dirt, dust efflorescence, grease, mildew, oil, wax or other contaminants.

**Cement Board:** All new cement board must be properly cured before application of the primer. Patch all voids with **Scratch Coat 300** (Refer to separate product bulletin), or other approved Dudick materials. Clean the surface to remove any dirt, dust, grease, mildew, oil, wax, or other contaminants.

**Gypsum Board:** Allow new drywall finishes to dry before application of primer. Patch all voids with **Scratch Coat 300** (Refer to separate product bulletin), or other approved Dudick materials. Clean the surface to remove any dirt, dust, grease, oil, wax, mildew and other contaminants.

**Plaster:** Allow new plaster to properly cure before application of primer. Patch all voids with **Scratch Coat 300** (Refer to separate product bulletin), or other approved Dudick materials. Clean the surface to remove any dirt, dust, oil, grease, mildew, oil, wax, or other contaminants.

**APPLICATION**

**PRIMER 67 MIX RATIO (BY VOLUME)**

Component A                    1 gallon  
 Component B                    1 gallon

**PRIMING**

All new or uncoated surfaces should receive one coat of **Primer 67 @ 3-4 mils WFT**. Mix the pre-measured units of **Component A with Component B**. The bodycoat may be applied over primer that is “tacky”. Do not allow the primer to puddle.

**PRIMER 67 POT LIFE**

TEMPERATURE	PRIMER 67
50°F	90 min.
75°F	60 min.
90°F	30 min.

**BODYCOAT/TOPCOAT**

**STERI-GLASS MIX RATIO (BY VOLUME)**

Component A                    1 gallon  
 Component B                    48 fl. oz.

**Steri-Glass Pot Life & Cure Time**

Temperature	Pot 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-Glass Component A** separately for 1-2 minutes to disperse any pigments or fillers that have settled.

Add the correct amount of **Component B** and mix until a uniform color is achieved. Using a 3/8” nap Roller, apply evenly at 6-8 mils. Press fiberglass cloth into wet basecoat material utilizing “wallpaper hanging techniques”. Press firmly with roller to allow resin to “wick” through fiberglass cloth.

Butt fabric panels carefully (similar to wall papering) or overlap panels and double cut, removing trimmed material. Remove air pockets and wrinkles. Allow to cure overnight or until surfaces can be sanded.

## TOPCOAT

If necessary, use Scratch-Coat 300 to fill and repair any defects. Allow to cure and sand to a smooth finish. Using high quality roller covers, apply topcoat at 5-6 mils. Allow to cure, sand defects and repair. Apply second coat of topcoat resin at 5-6 mils by roller or spray. Allow to cure at least 2 days at 70°F before use.

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

## NOTES

**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-Glass** 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 corresponding Pot 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-Glass System** 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-Glass** system is intended for interior use only.

## CLEAN UP

Use **S-10 Cleaning Solvent, MEK or Acetone** to clean tools and equipment. **DO NOT USE LACQUER THINNER.**

## 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, **Primer 67** and **Steri-Glass** components will have a one-year 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-Glass system** 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-Glass** 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. **Primer 67 & Steri-Glass** 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.



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- 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, 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.

2/22/10