



DUDICK, INC.
 Corporate Offices
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STERI-QUARTZ B

**SOLVENT FREE, UV RESISTANT,
 LIGHT-MEDIUM
 TRAFFIC, DECORATIVE QUARTZ
 FLOOR SYSTEM, 1/16” -3/16”**

GREEN BUILDING FEATURES

*** Steri-Quartz B contributes toward satisfying credit MR 5 and EQ 4.2 under LEED.**

- Low emitting material
- Low VOC
- Low installation odor
- Processed and manufactured in Ohio

APPLICATION FEATURES

- Unique Multi Colored Patterns
- Tough, Durable & Seamless Floor
- Good UV Stability
- Protects Substrate from Chemical or Physical Attack
- Integral Cove Base and Curb (optional) – See Steri-Cove Gel section
- Broadcast System Allows for Ease of Application
- USDA Compliant
- Anti-Microbial Agents are available as an option



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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TYPICAL APPLICATIONS

- Commercial/Institutional Kitchens
- Pharmaceutical & Research Facilities
- Laboratories and Clean Rooms
- Water Treatment Plants
- Educational Facilities

CHEMICAL RESISTANCE

- Salts
- Alkaline Solutions

- Dilute Inorganic Acids
- Oils

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

COLORS

Available in standard or custom color patterns.
 Consult Dudick, Inc. for complete information.

TYPICAL PHYSICAL PROPERTIES

Compressive Strength ASTM C579	8,000-10,000 PSI (54-68 MPa)
Tensile Strength ASTM C307	1,500-1,600 PSI (10-11 MPa)
Flexural Strength ASTM C580	2,200-2,400 PSI (15-17 MPa)
Taber Abrasion ASTM D4060 CS-17 Wheel 1,000 Revolutions	0.06 gm max. weight loss
Coefficient of friction (Dry) ASTM F1679	Standard texture 1.0 Medium texture 0.96
Coefficient of friction (Wet) ASTM F1679	Standard texture >1.0 Medium texture 0.93
Flame Spread ASTM D635	<5 mm/self extinguishing
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete
Fungus Resistance U.S. Mil Std. 810E	No growth

* = 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.

SPECIFICATIONS

Steri-Quartz B system shall be a 1/16”-3/16” medium traffic, decorative floor that consists of a high solids, moisture tolerant primer, a textured impact resistant bodycoat, a UV stable topcoat, and optional clear satin, UV stable sealer.

Steri-Quartz B is manufactured by Dudick, Inc. and applied in accordance with the manufacturer’s recommendations.

THE STERI-QUARTZ B SYSTEM

Steri-Quartz B consists of a moisture tolerant primer, “broadcast” color quartz bodycoat and a UV stable topcoat. This total system provides a strongly bonded monolithic floor with excellent physical and mechanical properties. **Steri-Quartz B** is only intended for interior applications and consists of the following components.

Primer: The prepared concrete surface is primed to provide the “wetting out” required for good bonding. **Steri-Quartz B** bodycoat can be applied while the primer is tacky. Do not allow primer to puddle.

Bodycoat: The textured impact resistant bodycoat of **Steri-Quartz B** develops a cured strength 2-3 times that of concrete, therefore, providing exceptional durability and prolonging the life of the concrete substrate.

Topcoat: **Steri-Quartz B** is also utilized as a UV and chemical resistant topcoat. Two coats of **Steri-Quartz B** may be necessary depending upon the “approved” specified texture of the finished **Steri-Quartz B** flooring system.

OPTIONAL SEALERS

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

Cove: For cove work, follow the recommended installation methods in the Steri-Cove Gel section. This resin system functions as Primer, Bodycoat resin, and Grout resin and is specifically formulated for cove base applications.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

THEORETICAL SQUARE FEET PER GALLON at 1/16”**	
PRIMER 67	
Primer	See specified Primer Data Sheets
STERI-QUARTZ B	
Bodycoat	80-100 ft ² unit* per 1/16” lift
Medium Broadcast Quartz Aggregate	.75 lb. / ft ² per 1/16” lift
Topcoat	80-100 ft ²
<i>Optional: Sealer</i>	Consult Dudick Representative

*This unit does not include quartz aggregate. Consult your Dudick representative for information on pricing and sourcing of quartz aggregate.

**Quantities shown are for estimating purposes only. Coverages will vary due to porosity of the substrate. All quantities are estimated and will be affected by job conditions and workmanship.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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. 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 primer application using the Plastic Sheet Test per ASTM D4263.

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.

Abrasive blasting removes laitance, exposing honeycombs or voids beneath the surface which can be filled with **Scratch Coat 300**. (Refer to 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

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



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STERI-QUARTZ B BODYCOAT MIX RATIO (BY VOLUME)

Component A 1 gallon
 Component B 77 fl. oz.

STERI-QUARTZ B POT LIFE AND CURE TIME

STERI-QUARTZ B		
Temperature	Pot Life	Cure Time
50°F	50-60 min.	72 hrs.
75°F	30-40 min.	24 hrs.
90°F	15-30 min.	20 hrs.

Prior to adding **Component B**, mix **Steri-Quartz B Component A** for 1-2 minutes to assure that any filler which may have settled is dispersed. Combine the **A and B Components** and stir mechanically for approximately 2-3 minutes.

Thoroughly scrape the sides and bottom of the container and remix for another 30 seconds to achieve a uniform consistency. Pour the **Steri-Quartz B** mix directly onto the primed concrete.

The mix should be spread to a 15-mil thickness with a serrated squeegee, notched trowel or gauge rake. After spreading the material to the proper thickness, roll with a 3/8” nap roller in a cross-hatch pattern. Broadcast with either a mechanical sprayer or by hand in a “rainfall pattern” into the wet bodycoat to complete saturation (approximately .75# per square foot of “medium” broadcast quartz aggregate). Once cured, remove excess aggregate with heavy-duty industrial vacuum cleaner. This will produce a 1/16” thick topping. If additional thickness is specified, repeat the above steps.

When a 1/8” or 3/16” thickness is required, it is recommended that the application be made in successive lifts. Using two or three “broadcast lifts” assures greater uniformity in both thickness as well as aesthetic quality.

STERI-QUARTZ B TOPCOAT MIX RATIO (BY VOLUME)

Component A 1 gallon
 Component B 77 fl. oz.

STERI-QUARTZ B POT LIFE & CURE TIME

Temperature	Pot Life	Recoat Time	Cure Time
50°F	50 min.	12-14 hours	96 hours
75°F	30 min.	6-8 hours	24 hours
90°F	15 min.	5-6 hours	20 hours

Prior to adding the **Component B**, mechanically mix the **Steri-Quartz B Component A** separately for 1-2 minutes.

Add the correct amount of Component B and mix for one minute. Apply evenly by roller or squeegee. Apply in 5-10 mil increments to desired texture.

STERI-COVE GEL

PRIMING

Priming with the Steri-Cove Gel is an important step prior to applying the cove matrix. The gel texture helps the mixed cove material to “hang” on the vertical surface.

STERI-COVE GEL MIX RATIO (BY VOLUME) FOR PRIMING

Steri-Cove Gel Component A 85 oz.
 Steri-Cove Hardener Component B 43 oz.

Use a disposable brush to apply a thin coat on the vertical surface as well as the appropriate horizontal area which will be part of the seamless cove base.

Apply the mixed Steri-Cove Gel Bodycoat matrix over the wet primed area. (**Note:** If the primer cures before the matrix is applied – re-prime.)

BODYCOAT MIX RATIO (BY VOLUME)*

*1 gallon of mixed liquids (mixes 2:1 by volume) per 50 lb. bag of aggregate. Note: Steri-Cove Gel can be used with any of these aggregates: pre-blended color quartz (trowel or broadcast grade), solid color quartz (trowel or broadcast grade) or EA-1 aggregate.

Steri-Cove Gel Component A 85 oz.
Steri-Cove Gel Component B 43 oz.
50 lbs. of aggregate

Prior to adding the aggregate, combine the **A and B Components** and stir mechanically for approximately 2-3 minutes. Thoroughly scrape the sides and bottom of the container and remix for another 30 seconds to achieve a uniform consistency. Gradually add the aggregate, mixing continuously until a uniform mortar is achieved. Trowel up wall with straight edge trowel. Place extra mortar in radius and smooth with small radius coving trowel, approximately 1/2" radius.

GROUT COAT:

STERI-COVE GEL MIX RATIO (BY VOLUME) AS GROUT COAT – 2:1 by volume

Steri-Cove Gel Component A 85 oz.
Steri-Cove Hardener Component B 43 oz.

Apply with a disposable brush to excess. Follow with a flat squeegee to remove excess. Allow to cure overnight and repeat (if necessary) for second coat.

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-Quartz B** 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 chart.

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

Application of **Steri-Quartz B** 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-Quartz B system is intended for interior use only.

CLEAN UP

Use **S-10 Cleaning Solvent, MEK & 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 cool, dry area, away from open flames, sparks, or other hazards.

When properly stored in their original, unopened containers at 50°F-75°F, **Primers** and **Steri-Quartz B** 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. The components of the **Steri-Quartz B System** are 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-Quartz B** is 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.



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- 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. The components of the **Steri-Quartz B System** 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.

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.

04/17/18

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,