

STERI-QUARTZ T

SOLVENT FREE, LIGHT-MEDIUM TRAFFIC DECORATIVE QUARTZ FLOOR SYSTEM 3/16" – 1/4" (4.8 mm – 6.4 mm)

GREEN BUILDING FEATURES

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

APPLICATION FEATURES

Unique Multi Colored Patterns
Good Compressive Strength
Good UV Stability
Excellent Durability and Chemical Resistance
Protects Substrate from Chemical or Physical Attack
Seamless, Easy to Maintain Surface
Anti-Microbial Agents are available as an option
Integral Cove Base and Curb (optional) – See Steri-Cove Gel section

TYPICAL APPLICATIONS

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

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)
Thermal coefficient of linear expansion ASTM C531	1.8x10 ⁻⁵
Shore D Hardness ASTM D2240	85-90
Taber Abrasion ASTM D4060	60 mg
Flame Spread ASTM D635	<5 mm
WVT ASTM E96	0.018 perm. in.
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete

SPECIFICATIONS

STERI-QUARTZ T system shall be a 3/16" medium traffic decorative floor that consists of high solids, moisture tolerant primer, impact resistant bodycoat and Sealer 30, a UV stable, clear satin sealer coat.

STERI-QUARTZ T is manufactured by Dudick, Inc. and applied in accordance with the manufacturer's recommendations.

THE STERI-QUARTZ T SYSTEM

Steri-Quartz T consists of a moisture tolerant primer, "trowelled" color quartz bodycoat and a highly UV stable topcoat. This total system provides a strongly bonded monolithic floor with excellent physical properties. **Steri-Quartz T** 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 T bodycoat can be applied while the primer is tacky. It is recommended that angular sand be broadcast into the primer to aid in the trowelability of the bodycoat when wet priming is not an option. Do not allow primer to puddle.

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

Grout Coat(s): Utilizing Steri-Quartz liquid components, any porosity in the bodycoat is filled to give a non-porous surface.

OPTIONAL SEALERS

For **improved** UV stability, abrasion, stain resistance and chemical resistance. A Sealer can be applied over **Steri-Quartz T**. 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

APPROXIMATE SQUARE FEET PER GALLON AT 3/16***	
Primer	See specified Primer Data Sheets
Steri-Quartz T Bodycoat	60-65 ft ²
1st Grout Coat	100-150 ft ²
2nd Grout Coat	200-250 ft ²
<i>Optional: Sealer</i>	
STERI-COVE GEL	
Primer	250 ft ² per gallon
Bodycoat	110 LF @ 4" by 1/8" - 1" radius
	70 LF @ 6" by 1/8" - 1" radius
Quartz Aggregate	.75 lbs. per sq. ft.
Grout Coat	100ft ² per gallon

Coverage rates will ultimately be determined by applied thickness and the degree to which the body coat is compact during trowelling.

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

Mechanical preparation removes laitance, exposing honeycombs or voids beneath the surface which must 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 T: Primer 67, Primer 67LV, Primer 67DPLV, Primer 67DTO & Primer 60.**

STERI-QUARTZ T MIX RATIO (BY VOLUME)

Component A 80 fl. oz.



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Component B 48 fl. oz.
 Trowel Grade Quartz 100 lbs. pre-blended

STERI-QUARTZ T POT LIFE & CURE TIME

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

BODYCOAT

The bodycoat is most easily blended using a concrete mortar mixer. Prior to adding the trowel grade quartz, 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 trowel grade quartz and sand, mixing continuously until a uniform mortar is achieved. Pour the **Steri-Quartz T** mix directly onto the primed concrete.

The mix should be spread evenly over the floor with screed box, gauged rake, or narrow trowel. Close or finish with power trowel (with plastic blade protection) or finishing trowel. This will produce a nominal 3/16" - 1/4" thick topping.

Grout Coat: Flood the grout coat over the bodycoat generously with squeegee or trowel. Allow to soak in and penetrate bodycoat. Slowly draw off excess tight with squeegee (Black rubber squeegees are not recommended as they can leave marks). Allow to cure overnight at 75°F. Apply second grout coat.

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 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

The pot life of **Steri-Quartz T** 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 tables.

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 T** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Over-trowelling may also lead to blisters.

Double priming, shading or evening application may be required. Consult a Dudick representative.

CLEAN UP

Use **S-10 Cleaning Solvent** to clean tools and equipment. Acetone and MEK may also be used. **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, **Primers & Steri-Quartz T** 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 T Systems** 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 T** 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.
- 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 T 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.

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



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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.

6/30/21