



DUDICK, INC.

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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

*** Steri-Quartz T 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

- Unique Multi Colored Patterns
- Good Compressive Strength
- Good UV Stability
- Excellent Durability and Chemical Resistance
- Protects Substrate from Chemical or Physical Attack
- Integral Cove Base and Curb (optional)
- Seamless, Easy to Maintain Surface
- 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.

* = 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.

TYPICAL APPLICATIONS

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

CHEMICAL RESISTANCE

- Salts
- Dilute Inorganic Acids
- Alkaline Solutions
- 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 8000-10,000 PSI (54-68 MPa)
ASTM C-579
- Tensile Strength 1500-1600 PSI (10-11 MPa)
ASTM C-307
- Flexural Strength 2200-2400 PSI (15-17 MPa)
ASTM C-580
- Thermal Coefficient of Linear Expansion
ASTM C-531: 1.8×10^{-5}
- Shore D Hardness 85-90
ASTM D-2240
- Taber Abrasion 60 mg
ASTM D 4060
CS-17 Wheel,
1000 Revolutions
- Static Coefficient of Friction 86 dry / 54 wet
ASTM C-1028
- Flame Spread < 5 mm
ASTM D-635

Volatile Organic Compounds (VOC)

ASTM D-3960	
Primer 67	0
Steri-Quartz T	0
WVT	0.0018 perm. in.
ASTM E-96	
Tensile Bond Strength	Cohesive Failure of
ASTM D 4541	Concrete
Fungus Resistance	No Growth
U.S. Mil Std. 810E	

SPECIFICATIONS

STERI-QUARTZ T system shall be a 3/16” medium traffic decorative floor that consists of 100% solids, moisture tolerant primer, impact resistant bodycoat.

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 with **Primer 67** 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.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

APPROXIMATE SQUARE FEET PER GALLON AT 3/16”**	
Primer 67	150-200 ft ²
Steri-Quartz T Bodycoat	60-65 ft ²
1st Grout Coat	100-150 ft ²
2nd Grout Coat	200-250 ft ²

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

For additional UV and wear resistance, apply **Sealer 25**, a clear 2-component aliphatic polyurethane as the final topcoat.

See **Sealer 25** technical literature for application procedures. *Also available, Steri-Coat UVR 100 % solids ,low odor, aliphatic epoxy for exceptional resistance to UV light.*

**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 225 PSI per ASTM D-4541.

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



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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

PRIMER 67 MIX RATIO (BY VOLUME)

Component A 1 gallon
Component B 1 gallon

.PRIMER 67 POT LIFE

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

PRIMING

Concrete: Mix the pre-measured units of **Component A with Component B**. Prime all concrete surfaces to be coated with **Primer 67** at 3-4 mils WFT. The coating may be applied over primer that is "tacky". Do not allow the primer to puddle.

STERI-QUARTZ T MIX RATIO (BY VOLUME)

Component A 80 fl. oz.
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.

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, **Primer 67 & 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.

3/18/10