



Made in the United States of America

Conductive Solvent-Free Epoxy Adhesive Application Instructions & Safety Data Sheets



Figure 1. 8453 Conductive Epoxy Adhesive

Description

Statguard® Conductive Solvent-Free Reactive Epoxy is a two-part urethane flooring adhesive with low volatile organic compounds (VOCs). It is designed for the installation of Statguard 8400 Series Tile. All Safety Data Sheets (SDS) and installation instructions must be read, fully understood and followed.

Technical Data

Laboratory Tests	Results
Polymer type	Epoxy
Percent solids	90% to 100%
VOC's (Rule #1168 of California's SCAQMD)	8 g/L
Pot life	40 minutes
Trowelability	Light, easy
Conductivity	0.21 x 10 ⁵ (ohm) (10V)
Color	Black
Shelf life	1-year when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Flash point	
Part A	>200°F (93°C)
Part B	>200°F (93°C)
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic

Features and Benefits

- Excellent Electrical – less than 1×10^6 ohms, per ANSI/ESD STD11.12
- Superior indentation resistance
- Fast-setting with easy trowelability
- Superior bond strength

Industry Standards and Approvals

- RFCI IP #1 – Recommended Installation Practice for Homogeneous Sheet Flooring, Fully Adhered
- RFCI IP #2 – Recommended Installation Practice for Vinyl Composition Tile (VCT)
- RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings

Where to Use

- Interior commercial
- Interior heavy commercial
- Interior institutional

Limitations

- Do not install over any substrates containing asbestos
- Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869)
- Do not install with relative humidity of concrete slabs exceeds 80% (ASTM F2170)
- Use only when the substrate temperature is between 65°F and 85°F (18°C and 29°C)

Suitable Substrates

- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Approved wood underlayments (per manufacturer recommendations)
- Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- Properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Consult Statguard Flooring Customer Service for installation recommendations regarding substrates and conditions not listed.

Preparation:

- All subfloors shall be permanently dry, clean, smooth and structurally sound as per ASTM F710.
- Moisture testing following the protocol of ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes.
- The maximum allowable relative humidity (RH) is 80%, tested at the correct service temperature and ambient humidity.

Grounding:

- Statguard Flooring recommends installing one copper grounding strip per 1,000 square feet throughout the installation.
- A thin coating of adhesive should be applied on top of grounding strip to ensure good contact with tile backing

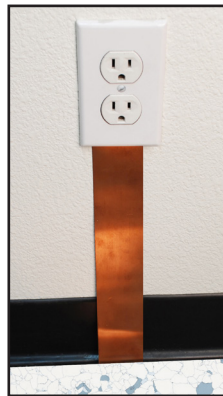


Figure 2. 81524
Grounding Strip In Use

Installation:

- Wear all appropriate safety equipment to avoid skin contact during mixing, application and cleaning. The curing of two-part reactive adhesives is sensitive to temperature; heat will speed up the curing process while colder temperatures will slow it down.
- Pour all material out of the Part B (liquid) container into Part A (paste). Place the cap back on the Part B container and turn the container upside-down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A.
- Mix Part A and Part B materials until homogenous (without streaks), using a slow-speed drill fitted with a suitable mixing spindle*. **Note:** Do not partial-mix units.
- Use the correct notch trowel for the selected flooring and follow the installation instructions. Replace all worn trowels to ensure proper spread rate; do not re-notch.
- Do not spread more adhesive than can be covered with floor covering within 30 minutes. After spreading the adhesive, immediately install the flooring material into the adhesive while it is still fresh. Periodically lift the material to confirm proper adhesive transfer to the backing



Figure 3. *Recommended
Spindle: [MixIt Tool](#)
by BuddyTools LLC

- Roll the flooring surface across the width and length with the manufacturer's recommended roller to break down adhesive ridges and to ensure complete removal of trapped air. Multiple rolling may be required to maintain proper flooring placement during cure.

Cleanup:

- Remove any fresh adhesive from the surface and tools with mineral spirits.
- Once cured, the adhesive may not be removed without damaging the flooring.

Note: Refer to technical and safety data sheets for complete information regarding uses, application, limitations and safety.

Application Table

Application Characteristics Over Porous Substrates		
Pot Life	Flash Time*	Working Time**
40 minutes	15-30 minutes	30 minutes

* Flash time is the waiting time required before installing flooring.

** Working time is the window of time for the adhesive to accept flooring.

Note: Flash time and working times may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Approximate Product Coverage

Flooring Type	Typical Trowel	Coverage*
Statguard Flooring, Solid Vinyl Sheet, Tile & Plank, Vinyl Composition Tile	1/32" x 1/16" x 1/32" U-Notch (1 x 1.5 x 1 mm)	185 to 245 sq. ft. per U.S. gal. 4.53 to 6.0 m ² per L)

* Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

RoHS, REACH, and Conflict Minerals Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:

[DescoIndustries.com/ROHS.aspx](https://descoindustries.com/ROHS.aspx)

Desco Industries Limited Warranty

See the Statguard Flooring Limited Warranty:

[Statguard.descoindustries.com/Limited-Warranty.aspx](https://statguard.descoindustries.com/Limited-Warranty.aspx)