

### Two Part Conductive Epoxy Vinyl Tile Adhesive Application Instructions & MSDS



Figure 1. Statguard® Two Part Conductive Epoxy Adhesive

**Description:**

81521 is a two part component conductive epoxy adhesives of syrupy consistency. It is formulated to bond where high performance, interior installation is required.

**Limitations:**

1. Protect from freezing in transit and storage. If frozen, allow to return to room temperature without stirring.
2. Do not use when the substrate temperature is below 15°C (59°F) or above 30°C (86°F).
3. For interior installations only.

**Directions:**

- Remove the lid of part A and stir using a mechanical mixer.
- Remove the lid of part B and pour all the contents of part B into the container of part A. Use a rubber spatula to remove all of the part B from the container. Thoroughly mix both part A and part B together. The use of a mechanical mixer is required to ensure proper mixing. Inadequate mixing will cause bond failure.

**Application:**

- Pour the full amount of the mixed adhesive onto the floor

immediately after mixing and spread with a 1/32" x 1/32" x 1/32" U-notched trowel. Ensure proper transfer covering 100% of the tile backing.

**Note:** Do not leave mixed epoxy adhesive in original can; the heat generated by this chemical mixture reduces the open time of the adhesive.

- After spreading the adhesive, let it flash off for 10 minutes, then lay the tile into the adhesive (do not force the tiles together tightly, rather place them so that seams are just touching). Take care to use kneeling boards or work off the tile whenever possible. Remove excessive adhesive from the surface of tile with a cloth moistened with a soapy solution or denatured ethyl alcohol or isopropyl alcohol (friction alcohol) while adhesive is wet.

- Open time of adhesive will vary depending on site conditions (i.e. temperature, humidity). The adhesive is still workable if it is wet and transfers to the fingers when touched. The installer should observe adhesive transfer to the back of the tile prior to and following cross rolling with a 100 pound sectional roller. The back of the tile should be covered 100% with the adhesive. The floor MUST be rolled prior to adhesive hardening. A second rolling must be done 2 to 3 hours after the first rolling.

**Clean-Up:**

- Clean excess adhesive on the tile and tools promptly using a soapy solution or denatured ethyl alcohol or isopropyl alcohol (friction alcohol).

Note: epoxy adhesives cannot be removed after they have set.

**Caution:**

- Keep from freezing.

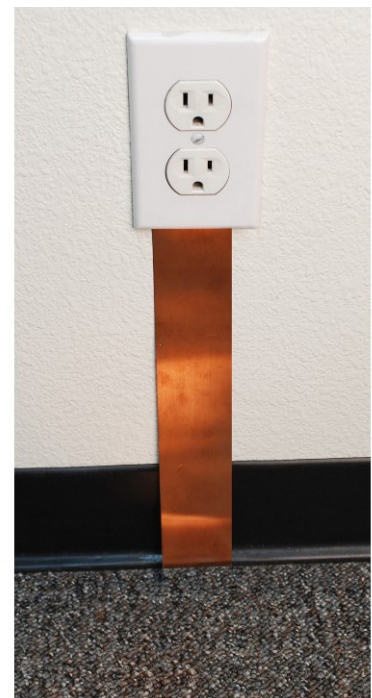
**Coverage:**

- Two Part 81521 conductive adhesive covers up to 265 sq ft per U.S. gallon.

**Note:** coverage quantities shown are approximate and given for estimating purposes only. Actual job site coverage may vary according to substrate conditions.

**Grounding:**

Statguard 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



81521 Copper Grounding Strip in use

### Two Part Epoxy ESD Vinyl Tile Adhesive - Part A

#### I. Chemical Product and Company Identification

Material Identity

HMIS: H: 0/ F: 0/ R: 0

Product Code and Name: Two Part Epoxy ESD Vinyl Tile Adhesive - Part A  
Manufactured for: Statguard Flooring  
90 Hudson Road  
Canton, Ma 02021  
Phone: (781) 821-5609  
WHMIS Classification: B3, D2B  
Description:  
Product Use: Two Components Polyurethane Adhesive, Part A  
Transport: Adhesive, containing flammable liquid, CLASS 3.3, UN 1133, P.G. III  
(Not applicable for ground transportation of container < 454 L)

#### II. Hazardous Ingredients

Reportable Components	CAS Number	Percent	TLV Value	LD50
Toluene	108-88-3	10-30	100 P.P.M.	N/D
Polyamide	68410-23-1	10-30	N/D	N/D

#### III. Physical Data

Boiling Point(°C): >38  
Specific Gravity(H<sub>2</sub>O=1): 1.24  
Vapor Pressure(mm of Hg): N/D  
Volatile Matter(% Vol.): N/D  
Vapor Density (Air=1): >3  
Evaporation Rate: Slower than either  
Solubility in Water(%): Not Soluble  
Appearance and Odor: White paste, slight odour of solvent  
pH: N/A

#### IV. Fire and Explosion Hazards

Flammable: Yes  
Flash Point(°C): 6  
Method: Penske-Martin  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>  
Auto-Ignition Temperature: N/A  
Lower Limit: N/A  
Upper Limit: N/A  
Special Fire Fighting Procedures: Complete protective equipment including a self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Metal container must be grounded.

#### V. Reactivity Data

Stability: Stable  
Incompatible Materials: Acid, Base, Oxidizing Agents, and Amines  
Hazardous Decomposition Products: May liberate carbon monoxide, carbon dioxide and unidentified organic compounds in black smoke. Contact with copper may form acetylene gas.  
Hazardous Polymerization: May occur  
Conditions to Avoid: Uncontrolled mix with amines.

## VI. Health Hazards

Effects or Overexposure: Repeated exposure to high concentration could cause depression of the central nervous system.  
Skin: Product is irritating.  
Eyes: Product is irritating.  
Inhalation: Exposure to low concentration may cause irritation to the upper respiratory tract  
Ingestion: Data not available but ingestion of the material would be harmful.  
Carcinogen: No  
Teratogenic: Yes (CSST)  
Mutagenic: N/D

### EMERGENCY FIRST AID PROCEDURES:

Inhalation: In case of overexposure, move to fresh air. If not breathing, trained personnel should administer artificial respiration. Get immediate medical attention.  
Eye Contact: In case of eye contact, flush with water for at least 15 minutes while holding eyelids open. Contact a physician.  
Skin Contact: In case of contact, immediately wash skin with soap and water. Remove contaminated clothing. Contact a physician if irritation persists.  
Ingestion: If swallowed, do not induce vomiting. Contact a physician or a poison control center immediately.

## VII. Spill or Leak Procedures

Steps to be taken in case material is spilled or released: Wear protective equipment. Contain by diking with soil or other non-combustible absorbant materials and put into a DOT approved waste container.  
Waste disposal method: Dispose of in accordance to local, state and federal environmental regulations.

## VIII. Preventive Measures

Respiratory Protection: Not required.  
Ventilation: Use in a well ventilated area.  
Eye Protection: Safety glasses.  
Hand Protection: Neoprene or nitriles gloves.  
Other: As needed to minimize exposure  
Transportation: Not regulated.  
Handling: N/E  
Storage: Store at room temperature (20 °C). Not affected by refrigeration. Stable to freeze/thaw.

Disclaimer: This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was obtained from test performed by agencies other than the Manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.

N/A = Not Applicable  
N/D = Not Determined  
N/E = Not Established

# Two Part Epoxy ESD Vinyl Tile Adhesive - Part B

## I. Chemical Product and Company Identification

Material Identity

HMIS: H: 0/ F: 0/ R: 0

Product Code and Name: Two Part Epoxy ESD Vinyl Tile Adhesive - Part B  
Manufactured for: Statguard Flooring  
432 Northboro Road Central  
Marlboro, MA 01752  
(508) 481-6849  
WHMIS Classification: B3, D2B, E  
Description:  
Product Use: Universal Two Components Polyurethane Adhesive, Part B  
Transport: Adhesive, containing flammable liquid, CLASS 3.2, UN 1133, P.G. II  
(Not applicable for ground transportation of container < 454 L)

## II. Hazardous Ingredients

Reportable Components	CAS Number	Percent	TLV Value	LD50
Toluene	108-88-3	3-7	100 P.P.M.	N/D
Diglycidyl Ether or Bisphenol A	25068-38-6	60-100	N/D	N/D

## III. Physical Data

Boiling Point(°C):	>40	Evaporation Rate:	Slower than either
Specific Gravity(H <sub>2</sub> O=1):	1.13	Solubility in Water(%):	Not Soluble
Vapor Pressure(mm of Hg):	N/D	Appearance and Odor:	Brownish liquid, light odour of solvent.
Volatile Matter(% Vol.):	N/D	pH:	N/A
Vapor Density (Air=1):	>3		

## IV. Fire and Explosion Hazards

Flammable: Yes  
Flash Point(°C): 6  
Method: Penske-Martin  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>  
Auto-Ignition Temperature: N/A  
Lower Limit: N/A  
Upper Limit: N/A  
Special Fire Fighting Procedures: Complete protective equipment including a self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Metal container must be grounded.

## V. Reactivity Data

Stability: Stable  
Incompatible Materials: Oxidizing Agents  
Hazardous Decomposition Products: Can produce carbon monoxide, carbon dioxide, nitrogen oxide and some others unidentified organic products.  
Hazardous Polymerization: May occur  
Conditions to Avoid: Uncontrolled mix with certain resins.

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## VI. Health Hazards

Effects or Overexposure: Prolonged exposure to high concentration of fumes may cause some troubles to the central nervous system.  
Skin: Product is corrosive to the skin.  
Eyes: Product is corrosive to the eyes.  
Inhalation: Fumes of product could be irritating to the respiratory tract.  
Ingestion: Data not available but ingestion of the material would be harmful.  
Carcinogen: No  
Teratogenic: N/D  
Mutagenic: N/D

### EMERGENCY FIRST AID PROCEDURES:

Inhalation: In case of overexposure, move to fresh air. If not breathing, trained personnel should administer artificial respiration. Get immediate medical attention.  
Eye Contact: In case of eye contact, flush with water for at least 15 minutes while holding eyelids open. Contact a physician.  
Skin Contact: In case of contact, immediately wash skin with soap and water. Remove contaminated clothing. Contact a physician if irritation persists.  
Ingestion: If swallowed, do not induce vomiting. Contact a physician or a poison control center immediately.

## VII. Spill or Leak Procedures

Steps to be taken in case material is spilled or released: Wear protective equipment. Contain by diking with soil or other non-combustible absorbant materials and put into a DOT approved waste container.  
Waste disposal method: Dispose of in accordance to local, state and federal environmental regulations.

## VIII. Preventive Measures

Respiratory Protection: Approved mask with cartridges for organic fumes.  
Ventilation: Use in a well ventilated area.  
Eye Protection: Safety glasses.  
Hand Protection: Neoprene or nitriles gloves.  
Other: As needed to minimize exposure  
Handling: N/E  
Storage: Store at room temperature (20 °C). Not affected by refrigeration. Stable to freeze/thaw.

Disclaimer: This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was obtained from test performed by agencies other than the Manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.

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