



Made in the
United States of America

One Part Acrylic ESD Vinyl Tile Adhesive Application Instructions



Figure 1. 81520 – One Part, Conductive Acrylic Adhesive

Description:

One Part [81520](#) is an acrylic base conductive adhesive for the installation of 8400 Series ESD Vinyl Tile over clean, smooth substrates.

Technical Data

Laboratory Tests	Results
Polymer type	Acrylic
Percent solids	65%
VOC's (Rule #1168 of California's SCAQMD)	0 g/L (0 oz/US gallon)
Pot life	40 minutes
Trowelability	Light, easy
Volume Resistance	< 1 x 10 ⁶ (ohm) (10V) per ANSI/ESD STM11.12
Color	Grey
Shelf life	18 months when stored in original packaging
Storage conditions	50°F to 85°F (10°C to 29°C)
Certification (Indoor Environmental Quality)	FloorScore® # SCS-FS-04503
LEED projects eligibility	See LEED v4 Matrix
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic

Limitations:

1. Keep 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 10°C (50°F) or above 29°C (85°F).
3. For interior installations only
4. Do not use for the installation over impervious surfaces. For such installation, refer to [8453](#)

Directions:

Remove the lid from the container and apply directly from the container.

Application:

Adhesive Properties & Limitations	
Flash Time	5 to 15 minutes
pH (ASTM F710)	8-11
Relative Humidity (RH) (ASTM F710)	Maximum 85%
Moisture Vapor Emission Rate (MVER) (ASTM F1869)	<3.63 kg/93 sq.m/24 hours (<8.0 lbs/1,000 sq.ft/24 hours)
Electrical grounding	Prior to applying adhesive, install the copper tape (See page 2)
LEED projects eligibility	See LEED v4 Matrix

- Using a 1/32" x 1/16" x 1/32" U-notched trowel, apply the adhesive evenly to the floor.

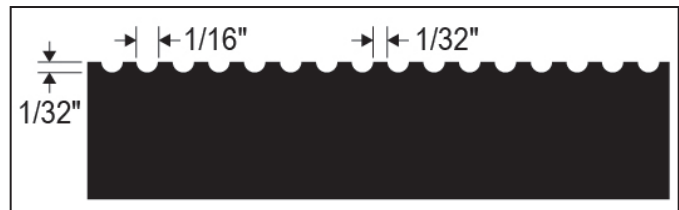


Figure 2. U-notched Trowel

- Start laying the 8400 Series ESD Vinyl Tile after 10 minutes allowing the moisture to flash off. Laying of the tiles must start no later than 15 minutes. After the moisture has been allowed to flash off, lay the tile into the adhesive (do not force the tiles together tightly, rather place them so that the seams are just touching). Take care to use kneeling boards or work off of the tile whenever possible. The adhesive is still workable if it is wet and transfers to the fingers when touched. Ensure that the adhesive has transferred to the back of the tile by lifting the corners.
- Avoid trapping air bubbles by cross rolling the floor with a 100 pound sectional.

Clean Up:

- Clean excess adhesive off the tile and tools using soap and water, rubbing alcohol, denatured alcohol or methyl hydrate. Dry adhesive is more difficult to remove.
- **For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled

material to a suitable container for disposal.
Contact competent authorities after a spill.

Coverage:

- One part [81520](#) conductive adhesive covers up to 200 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.

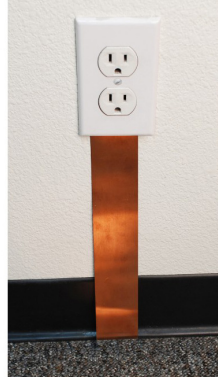


Figure 3. [81524](#) Copper Grounding Strip in use

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.
- 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
- 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.

Remarks:

- Refer to safety data sheet for further instructions.
- Wear suitable individual protection equipment while using product.
- Keep out of reach of children.
- Protect against freezing during transportation and storage.

Specific Instructions After Installation

Roll the flooring in both directions with a 45 kg (100 lb) sectional roller.

Adhesive clean up: soapy water, rubbing alcohol, denatured alcohol or methyl hydrate.

Protection:

- Up to 24 hours after installation: no traffic;
- From 24 to 72 hours: Light traffic, heat welding;
- After 72 hours: Moderate to heavy traffic, initial maintenance

Adhesive Properties

Polymer	Acrylic
Color	Grey
Size	3.79 liters (1 US gallon)
Solid content	65%
Storage conditions	Between 10 °C and 29 °C (50 °F and 85 °F)
Shelf life	18 months when stored in original packaging
VOC (SCAQMD rule #1168)	0 g/liter (0 oz/US gallon)
Certification (Indoor Environmental Quality)	FloorScore® #SCS-FS-04503
LEED projects eligibility	See LEED v4 Matrix