



United Static Smart SDT+ Conductive ESD flooring Adhesive

NOTE: This product is ONLY Warranted for use with ElectraTile ESD Vinyl and United SCP Carpet Tiles

Product Data Sheet

DESCRIPTION

United Static Smart SDT+ is a solvent-free, conductive, acrylic adhesive formulated to permanently install conductive and static dissipative resilient tile and sheet flooring and rubber tile and sheet flooring. To insure product stability and reduce joint openings, United Static Smart SDT+ has been formulated to produce a hard set and firm bond line less susceptible to indentation and telegraphing. May be used over properly prepared porous and non-porous surfaces such as concrete, underlayment grade plywood, cementitious based patching compounds and levelers

BENEFITS

- Non-Flammable
- Solvent-free
- Excellent moisture and alkali resistance
- Excellent plasticizer resistance
- In bucket anti-microbial protection
- When dry, does not promote growth of mold or mildew
- Low odor
- Easy to trowel
- Sets to a hard setting, permanent bond
- Easy clean up
- Available in bio-degradable pails
- **LEED Points Contribution LEED Points**
MR Credit Regional Materials up to 2 points
IEQ Credit 4.1 Low-Emitting
Materials Adhesives and Sealants 1 point

TESTING METHODS

- Freeze-thaw stability (ASTM D7149)
- Shelf Life (ASTM D1337)
- Adhesive Shear Strength (ASTM D6004)
- 90° Peel Resistance (ASTM D6862)
- Plasticizer Resistance (ASTM D7888)
- Caster Chair (ISO 4918)
- Heat Aged Expansion/Contraction

TECHNICAL DATA

Weight/Gal: 10.2 lbs.
Color: Grey
Consistency: Smooth paste
VOC: <1 gram/liter per SCAQMD Rule 1168
Shelf Life: 1 year in unopened container
Freeze-thaw: 5 cycles @ 0° F. If adhesive has frozen, thaw under normal room temperature.



PACKAGING

United Static Smart SDT+ is available in 1-gallon and 4-gallon pails.

STORAGE AND SHELF LIFE

Adhesive shall be stored in a dry, climate-controlled area. If adhesive has frozen, thaw under normal room temperature. Shelf life is one year from date of manufacture in unopened, properly stored containers.

COVERAGE

Trowel	Spacing	Coverage
	1/16" x 1/16" x 1/16" Square Notch	150-160 square feet per gallon
	1/16" x 1/16" x 1/16" V-Notch	165-200 square feet per gallon

ACCLIMATION

The area to receive flooring or stair treads shall be fully enclosed weather tight, with an installed operating HVAC system. The installation area, flooring materials and adhesive must be acclimated at a temperature between 65°- 85°F for 48 hours prior to, during and after installation. The relative humidity of the installation area shall be maintained between 35-55% per ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring).

SURFACE PREPARATION

United Static Smart SDT+ may be used on porous and non-porous surfaces free of moisture. Surface to be covered must be dry, clean and smooth. Any foreign materials present such as paint, grease, oil, pen markings, adhesive residues, etc. that may prevent a proper bond or migrate to the surface causing a stain must be removed. Adhesive can be used on all grades of concrete on, above or below grade in the absence of moisture. Installation of a 10 mil (0.010") or greater effective moisture retarder is recommended directly under all on and below grade concrete slabs with its integrity insured. Concrete shall be prepared according to the recommendations outlined in ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring). Concrete Floors (slabs) shall be free from crazing, dusting, spalling and any curing or sealing compounds. Concrete floors shall be tested for moisture according to the latest revision of ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes with levels **not to exceed 85%RH** and ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride with moisture levels **not to exceed 5 pounds** per 24 hours per 1,000 square feet. **Substrate PH reading should be between 7.0 and 10.0.** Wood floors must be double construction with a 1" minimum thickness, structurally sound, securely fastened and free from deflection/spring. Top layer of wood shall be underlayment grade plywood. Cracks and uneven surfaces must be filled with an approved cement-based patching compound.

It is the responsibility of the user to determine the porosity of the surface. To determine if a surface is porous, place a few droplets of water in various areas. If the subfloor is porous, the water will be absorbed within 2-3 minutes.

APPLICATION

Porous Substrates: Apply adhesive with a 1/16" x 1/16" x 1/16" square notch trowel for materials with a gauge (thickness) of 0.080" or greater. Use a 1/16" x 1/16" x 1/16" V-notch trowel for materials with a gauge (thickness) of 0.080" or less.

Spread adhesive evenly using the recommended trowel. Hold trowel at a 60° angle. Replace trowels with worn notches. Do not re-notch worn notches.

For porous applications, the adhesive shall be allowed to remain open or flash-off for no longer than 5 minutes before positioning flooring. The working time of the adhesive will be dependent upon

substrate porosity, room temperature and humidity. Adhesive trowel notches must be pliable to receive flooring. Immediately roll flooring in both directions with a 100 lb. three-section roller. Inspect a single tile 30 minutes after laying it into the adhesive. Approximately 50% of the adhesive should be visible on the back of the tile with the remaining adhesive being visible on the substrate.

Non-Porous Substrates: Apply adhesive with a 1/16" x 1/16" x 1/16" V-notch trowel.

Spread adhesive evenly using the recommended trowel. Hold trowel at a 60° angle. Replace trowels with worn notches. Do not re-notch worn notches.

Non-porous installations require the adhesive to be semi wet to the touch. The installer should see **very pliable adhesive trowel lines** that will yield a transfer of adhesive to the finger. Once the adhesive reaches this stage, it is ready to accept flooring material. **From the time the adhesive reaches this stage, to the time it must be covered with flooring is less than 30 minutes.**

These guidelines are common for installations in climate controlled environments. If the area is warmer than 75 degrees Fahrenheit (or if fans or air movers are used in the installation area) the adhesive will dry much faster. Adjust your open times accordingly.

If the adhesive remains uncovered too long a loss in adhesion will result. The installer should not spread more adhesive than can be covered with flooring within this time frame. **Adhesive trowel notches must be pliable to receive flooring.** Note: as long as flooring is positioned while trowel notches are pliable do not look for peel strength or transfer to back of flooring. Immediately roll flooring in both directions with a 100 lb. three-section roller. Allow it to dry for 30 minutes and evaluate the transfer.

Note: ALWAYS pre-test the bond strength of the tiles with the adhesive.

CLEAN-UP

Remove wet adhesive from flooring and tools with soapy water and a clean cloth. Use mineral spirits to remove dried adhesive. **Do not apply solvents directly to flooring.** Use caution when handling flammable solvents.

POST INSTALLATION

Prevent all traffic for a minimum of 24 hours. Restrict heavy traffic and rolling loads for a minimum of 72 hours after installation. Do not wash or begin maintenance procedures on the floor for a minimum of 5 days after installation to allow the adhesive to properly cure.

GENERAL WARRANTY

United SCP warrants its adhesive formulations to be free of all manufacturing defects. The warranty period shall be in place for one (1) year from the date of installation and will also be guided by the date of manufacture to insure the integrity of the formulation and that proper storage and shipment of same has taken place.

PRECAUTIONS

Carefully read and follow all precautions and warnings. Carefully read and follow installation instruction specific to the floor covering being installed with this adhesive. Keep out of reach of children. For complete safety information, refer to Safety Data Sheet (SDS) available from United Static Control Products Inc

QUESTIONS/ASSISTANCE

Help with questions, assistance or additional information can be found by

Visiting <http://unitedscp.com>, by calling our Tech Support department at 719 676 3928 (extension 7002) by emailing us at <mailto:techsupport@ultrastatinc.com>

Revision history:

Posted 6.18.19

Revised 7.16.19, changes to open time when covering nonporous substrates.

Revised 12/11/19, Warranted for use ONLY with ElectraTile and United SCP Carpet Tiles, secured document hyperlinks

Revised 1.10.22, Surface Preparation; Changed concrete floor to slabs for clarification.

Revised 8.12.22 open times derived from climate controlled environments.