SDT™ Static Dissipative Tile

Armstrong® SDT is part of a complete flooring system designed to control static in most nonexplosive manufacturing and working areas. SDT dissipates static charges away from people and equipment in order to increase personal comfort and safety and help prevent sensitive equipment damage. In addition to static control, SDT offers the practical benefits of VCT, including durability, ease of maintenance and low installed cost.

Post-installation electrical properties can be evaluated by a qualified third party. Contact your Armstrong representative for details.

SDT is styled and constructed for use in light industrial, education and office applications, including computer classrooms and repair labs as well as electronic testing facilities.

SDT provides static dissipative protection using a complete 4-part system. These components must be used together to obtain the static dissipative performance requirements.

1. Tile with integral static dissipative elements
2. S-202 static dissipative adhesive
3. Copper grounding strips
4. S-392 static dissipative polish

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**SDT™ Static Dissipative Tile**

### Specification Data

**Material, Pattern and Colors**
A composition of polychloride resin, plasticizers, stabilizers, fillers, pigments and antistatic additive. Colors and patterns are dispensed uniformly throughout the thickness of the material. Color pigments are insoluble in water and resistant to clearing agents and light.

**Size (nominal)**
12 in. x 12 in. (305 mm x 305 mm)

**Gauge (nominal thickness)**
1/8 in. (3.2 mm)

### Limitations
SDT shall not be used in the following areas:
- Munitions facilities
- Facilities involving explosives or explosive materials.
- Areas requiring conductive flooring.
- Hospital operating rooms.
- Heavy industrial and exterior areas.
- Commercial kitchens and commercial food processing areas.
- Where pointed prongs such as golf or track shoes will be used.
- Where the floor will be subjected to unusually concentrated static or dynamic loads.
- Do not install SDT in areas subjected to excessive surface water, such as areas where frequent spills are common. Excessive and/or prolonged exposure to surface water may interfere with the bond of SDT to the subfloor. If a surface spill occurs, it must be contained and removed immediately.

### Suitable for Application Over
- Concrete subfloors which are suspected, on grade or below grade.
- Suspended wood subfloor construction with approved wood underlayments, and a minimum of 10 in. (25.4 cm) ventilated on top surface.
- Radiant-heated subfloors with a maximum surface temperature of 85° F (29° C).
- Unsuitable for Application Over
- Existing resilient flooring, ceramic, marble, terrazzo, metal or other nonporous substrates.
- Subfloors where excessive moisture or alkali is present.
- Stepped or constructed wood subfloors, on grade or below grade.
- Lightweight aggregate concrete subfloors having a density of less than 90 lbs. per cu. ft. (1441 kg/m³) or cellular concrete having a plastic (wet) density less than 100 lbs. per cu. ft. (1620 kg/m³) or 94 lbs. per cu. ft. (1506 kg/m³) dry weight, or concrete having a compressive strength of less than 3500 psi (24 MPa). Concrete slabs with heavy static and/or dynamic loads should have higher design strengths and densities calculated to accommodate such loads.

### Comparative Subjective Property Ratings

<table>
<thead>
<tr>
<th>Property</th>
<th>Durability</th>
<th>Maintainability</th>
<th>Goodness</th>
</tr>
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<tbody>
<tr>
<td>SDT</td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

### Static Load Limit
ASTM F 970
75 lbs./sq. ft. (527 kg/m²)

**NOTE:** These floors should be protected from sharp-point loads and heavy static loads. High-velocity traffic (1000 fps [70.3 kg/cm²] or more) may visibly damage wood, resilient and other floor coverings.

### Installation

**Job Conditions**
Subfloors/underlayments shall be dry, clean, and smooth. They shall be free from paint, varnish, solvents, wax, oil, existing adhesive residue, or other foreign matter.

**Preferred Adhesives**
- Armstrong F-5061 Hardy Floor Adhesive
- Armstrong F-8663B Tuff-Grip Adhesive

**Adhesive Coverage**
- Minimum coverage of 25 sq. ft. (2.3 m²) per gallon (3.8 L) of adhesive.

**Adhesive Mix**
- Adhesive shall be thoroughly mixed before use.

### Preparing Subfloor/Underlayments

- **Cleaning:** Use a suitable solvent, such as Armor All, or a suitable household cleaning product.
- **Drying:** Drying is necessary before applying SDT. Before applying SDT adhesive, ensure that the subfloor/underlayments are dry and free from any moisture.

### Preparation of Commercial Use

**Armor All and Clean Floor:**
Armstrong ensures its products meet or exceed its own in-place performance standards. Use Armor All and Clean Floor to prepare the floor subfloor/underlayments for SDT installation.

- **Sweep or Vacuum Thoroughly:**
- **Residual Cleaning:**
  - Use a suitable solvent, such as Armor All, or a suitable household cleaning product.
- **Drying:** Drying is necessary before applying SDT. Before applying SDT adhesive, ensure that the subfloor/underlayments are dry and free from any moisture.

### Installation

**Operation System:**
- **SDT:**
  - Armstrong warrants its regular (first quality) commercial flooring and wall base to be free from manufacturing defects and warrants the installation integrity for five years from the date of purchase, if installed according to the Armstrong Installation/Maintenance/Tip Sheet, F-343 or F-344 or its predecessor, and with the electrical properties and/or the appearance of this flooring.
- **Resilient Floor Covering Institute:**

**SDT Tile Removal**
- Safety glasses are recommended for removal of floor tile; individuals removing tile and/or adhesive should wear cotton gloves and follow the general practices outlined in the current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for the Removal of Resilient Floor Coverings.
- This tile should be disposed of in accordance with normal procedures for non-asbestos floor tile. If Armstrong SDT (an individual tile, for example) is broken, damaged, or in need of repair and requires replacement, it must be replaced with SDT in order to continue to provide static dissipative properties.

### Maintenance Note
- See surface water instructions under “Limitations.”
- If electrical certification of an installation is required, do not perform any maintenance procedures until after that certification has been completed.

### Initial Maintenance Immediately After Installation

- **Sweep or vacuum thoroughly.**
- **Bump map with a dilute neutral detergent solution such as Armstrong S-485 Floor Cleaner—carefully wiping up black marks and excessive soil.**
- **Apply a minimum of three coats of Armstrong S-392 floor polish. S-392 IS THE REQUIRED POLISH FOR USE WITH SDT. Other polishes will interfere with the electrical properties and/or the appearance of this flooring.**
- **Do not wash or scrub the floor for at least four to five days after installation.**

### Fluid Score

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