

# Peel and Stick ESD Floor Tiles

## Installation over a grounded steel substrate

**NOTE: All ESD Tile Must be Shipped and Stored FLAT to avoid damaging the tile.**

Method of Operation: United SCP's Peel and Stick Tiles are custom manufactured from our Titanium Series ESD 2' x 2' premium flooring vinyl. Titanium ESD flooring features a static conductive wear resistant top surface that is permanently bonded to a full surface conductive backing. This surface is covered with an odor free, environmentally sensitive peel and stick adhesive. An aluminum foil ground pad located in the center of the tile is provided to make intimate contact with either a steel subfloor or a ½" wide .002 thick copper foil ground tape. This configuration allows the static charge that is created by the user or equipment to pass harmlessly thru the top surface of the tile where it flows across the conductive backing and is grounded via the aluminum pad to a steel sub floor or the electrically grounded copper foil tape. Each tile is numbered and tested at the manufacturing level to provide a resistance to ground and point to point of  $>1.0E04$  and  $<1.0E06$  (1 megohm).

Note: The following instructions should be reviewed prior to installation. Every effort has been made to provide accurate and reliable information in this document. This document is intended as a guide for our customer's use with our recommended tools and materials. United SCP cannot accept any responsibility for loss or damage that may result from the use of this information due to the possibility of variations of processing or working conditions and/or workmanship beyond our control.

**1. Basic Requirements:** Flooring must be installed at the final stage in any type of construction. Area lighting and HVAC must be running and fully functional. Measure the room, add an overage of 3 to 6% and place your order.

**Note:** Inspect the inbound shipment! Upon arrival of your product insure the tiles have arrived without damage to the packaging. If your shipment has been sent in a palletized form insure that the tiles have been received flat and have not been stored on their side. If the shipment has been damaged in any way take photos and report the damage to the driver or freight carrier immediately. Mark the damage on the bill of lading and contact United SCP's freight department at 719 676 3928 extension 7001.

**2. Room Temperature, Tile Preconditioning and Storage:** Allow the flooring time to acclimate. Flooring materials and room temperature must be maintained within 60° F / 75° F (18 C and 25 C) for at least 5 days prior to, during and after the installation. Store the tiles in same room as the install.

Store the tiles flat (not on edge). **IMPORTANT!** United makes every effort to ship the correct product, contact us immediately should you receive the wrong material. United SCP is not responsible for installation of the incorrect material, color or dye lot due to errors in pulling your order.

**3. Preparation of the steel substrate:** Substrate conditions such as flatness and texture are important! Relatively minor deviations in the steel subfloor may eventually telegraph through the tile. Insure the flatness of the steel subfloor meets your internal specifications prior to proceeding.

Grind weld beads smooth and flat and de-flux the welds. All steel substrates to receive the peel and stick tiles must be clean and electrically grounded. Insure that the steel subfloor is completely dry, free of rust, paint, oil, grease and any contaminants that may interfere with the bonding of the tiles to the steel substrate.

**4. Installation Pattern and Layout:** Measure the area to find the best starting point for a maximum size perimeter tile. Proper planning should avoid trimming perimeter tiles more than half their width. Since most rooms are not perfect rectangles, it is advisable to snap chalk lines at right angles to one another as guidelines for laying the tiles.

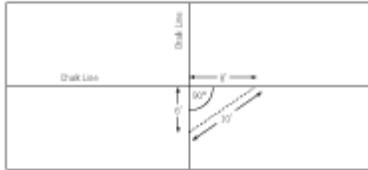
To do this, find the center point of one wall in the room. Now check your measurement from the center point to the wall (in feet and inches.) If the measurement is less than six inches, you should move your center mark six inches in either direction so that your trim pieces at the walls are maximum size.

Do the same for the remaining walls. The two center lines must bisect at right angles in the center of the room. To achieve a perfect right angle, which is essential for a proper install, form a triangle by measuring 6' X 8' X 10' (figure A). Starting with the center point, measure 6 feet on one line and mark that point. Go back to the center point and now measure out 8 feet from the other bisecting line and mark that point. If the angle is a correct 90°, the distance between these two end point marks should be exactly 10 feet.

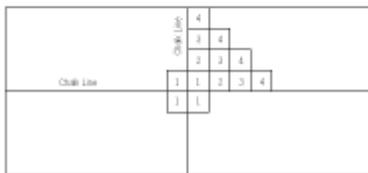
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**Figure A:**  
Determining a perfect square for installation



**Figure B:**  
Pyramid technique for laying out the flooring tiles.

**4. Install Tiles:** Carefully remove the wax paper liner from the back of the tile and place the tile down in the 4 center quadrants as shown in figure B (1). Build your install using the pyramid technique that is shown above. Roll this section with a standard 100 pound vinyl flooring roller.

**Note:** Do not remove the adhesive from the tile as this will permanently void the resistance to ground.

**Note:** After installation of no more than 10 Tiles test the conductivity using a standard 5 lb. electrode and applicable resistance test equipment set from 10 to 250 volts. Test Point to Point (between 2 tiles), Resistance to Ground and the combination resistance values of the technician in heel grounders to an electrical ground. Insure that the range of electrical conductivity that is provided meets your internal specifications for conductivity. Contact United SCP's Tech Services Department immediately should you experience any issues at 719 676 3928 (extension 7000).

Once testing of the sampled area has been completed and documented continue the installation of the tiles. Roll all installed tiles using a 100 pound vinyl roller. Test the electrical resistance on occasion as the install proceeds and contact United should problems arise.

**Edging your install:** These tiles may be trimmed to fit edges and around encumbrances using a vinyl tile cutter or a sharp vinyl flooring knife. If resistance to ground must be maintained around the perimeter of the area cut the fill section from the center portion of the tile as to keep the grounding pad on the back of the tile intact.

## NOTICE:

**1. Protect the finished install during move in:** Take precautions to properly protect the newly installed flooring if remaining work by other trades is to be completed. Heavy construction paper covered by plywood sheets or Masonite is the best method for protecting newly installed resilient flooring.

**2. Please Note:** Should a tile need to be removed and repositioned make every effort to NOT remove the adhesive from the tile. Removal of the adhesive from the tile will permanently render the tile nonconductive to ground.

**3. Adjustment of minimum conductivity.** These tiles may be coated with 2 to 4 evenly applied layers of ElectraThane and / or ElectraGlaze to raise the minimum resistivity.

**4. Floor care and maintenance.** Should a high shine be desired remove any contaminants using a dilute solution of ElectraClean and fresh water. Either damp mop or auto scrub. Do not allow liquids to pool and allow the flooring to dry. Coat the pre-cleaned tiles with 2 evenly applied coats of ElectraGlaze. Spray buff using a 50/50% of ElectraGlaze / Clean Water and high speed polish using a white pad.

General Cleaning: Damp mop or auto scrub using ElectraClean and cool clean water.

5. Warranty Overview (see details for full warranty): Lifetime Wear Properties and Lifetime Electrical Conductivity.

**QUESTIONS / ASSISTANCE: Call United SCP Customer Service at (719) 676 3928 with any questions you may have.**

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