

# Installing Titanium ESD Sheet Vinyl Over VCT, Smooth Tiles & Epoxy

Fast, Clean and Non Disruptive, Eliminate the headaches and COST of removing existing flooring. Perfect for covering old asbestos laden flooring

## Installation in a nutshell

- Inspect material upon arrival. Store the rolls standing.
- Allow time for the rolls to acclimate. Rough cut the sheet vinyl to length
- Prepare the sheet vinyl. See section 3 for details.
- Prepare subfloor. Install 2" Siga SuperTape around perimeter of room.
- Install URAS (double cut seams). Install grounding foil. Place sheet vinyl.
- Roll the area all directions with a 100 pound vinyl roller.
- Double cut slightly overlapped seams in the vinyl (the recommended overlap is 1.5 inches minimum). Groove and heat weld. The heat welds shall be structurally sound and an integral part of the floor (not simply filler for the groove). **Note:** ALWAYS perform a mockup test prior to installing the entire floor to confirm that the bond strength and weldability are appropriate for your installation.



Standard VCT covered with the URAS / Titanium ESD Sheet Vinyl Flooring System. Easily Compliant to the latest ANSI ESD S20.20 standards

Old factory flooring can make a perfect substrate for covering with our new generation of select ESD flooring materials. Titanium sheet vinyl is well suited for this type of installation using [URAS Max](#) (for permanent installations) or [URAS Releasable](#) (for temporary ESD flooring that may be moved and reused). Titanium / URAS are an outstanding solution for solving the headaches and disruptions associated with removing existing tiles, VCT and thick set epoxy. The installation is odor free, doesn't create dust and provides safe reliable anchoring of the new flooring to most types of old flooring.

**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.

**2. Receiving, Inspection, Storage and Preconditioning:** Large orders are shipped standing in crates. Smaller orders are shipped lying in cardboard cradles on a pallet. Inspect the shipment upon arrival. 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.

**2.1) Inspection:** The highest quality of materials and workmanship is employed in the manufacture of United ESD Flooring and careful inspection is made before shipment. However, a quality installation is the responsibility of the installer. It is the installer's responsibility to verify the accuracy of the order and to insure the materials are checked for consistent dye lots, damage, defects and satisfactory color and pattern matches. An authorized United Static Control Representative must be contacted and notified of any defects before the installation proceeds. United SCP is not responsible for the installation of the incorrect material, color or dye lot due to errors in fulfilling your order.

**2.2) Storage and Preconditioning:** Store the sheet vinyl standing (not on its side). Flooring materials and room temperature must be maintained consistently at a range of 60° F to 75° F with the humidity at 60% or below for at least 5 days prior to and during the installation. The area should maintain this temperature for the life of the flooring.

**3) Preparation and application of sheet vinyl:** The Titanium sheet vinyl and URAS adhesive must be allowed to acclimate to the ambient environmental conditions of the installation area for at least 72 hours prior to the installation.

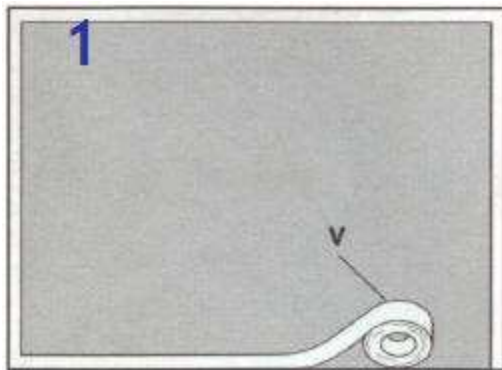
**Note:** The Titanium sheet vinyl must lay flat with no adhesive prior to installation. Any bubbles or other deviations in flatness must be dealt with *before* the installation. If needed, use a hot air gun to heat deviations and press them down until the material cools in a flat position. Any end curl memory should be heated and massaged to a flat position prior to installation.

**Note:** Insure the black backing is clean. Remove dirt, dust and any carbon residue from the backing of the vinyl by damp mopping with a dilute solution of ElectraClean and water.

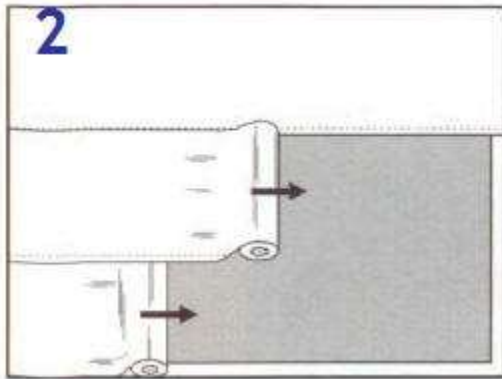
**4) Installation Pattern and Layout:** The Architect may have provided a drawing showing the direction in which the material should be laid. In this case lay the sheets as directed. If the Architect has left this to the discretion of the flooring installer, layout your installation as you would for standard non ESD Sheet Vinyl paying attention to where seams will fall and avoiding such occurrences as seams in the middle of doorways. If large windows are installed it is a common practice to minimize the effect of the joints by laying the vinyl length wise (towards the windows).

#### PREPARATION OF SUBSTRATES:

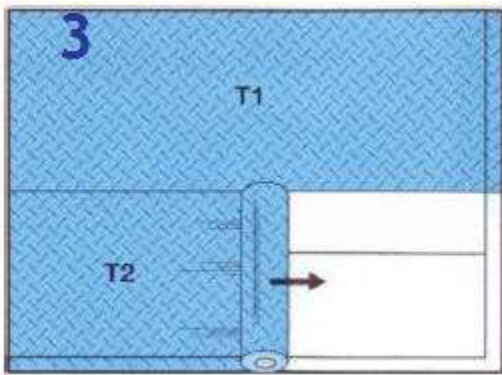
**Well Bonded Epoxy, Vinyl Tiles and VCT:** Thoroughly sweep and Vacuum floor to remove dust. Strip the old flooring of any wax, oil or grease using [ElectraStrip](#). Follow the directions for use! Like all floor stripping products ElectraStrip has a high pH level. Neutralize the pH by washing the floor with clean cool water mixed with 4 ounces of [ElectraClean](#) to each gallon of water used. Allow the area to dry thoroughly. Replace missing tiles (if any) and fill any deviations with Mapei Plani Patch or similar (a Portland based concrete patching compound), smooth patched areas to create a level and smooth profile to avoid shadow thru of subsequent covering of [Titanium ESD Sheet Vinyl](#).



**Install 2" SuperTape:** Starting at a distance of 1" from the wall or perimeter of the area you wish to cover place a border of 2" wide United SCP Ultimate Bond SuperTape as is shown in V

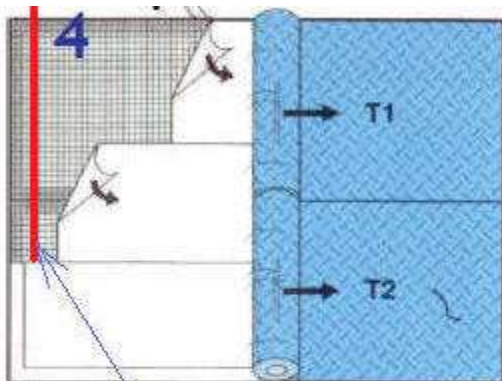


**Install URAS:** Starting at wall attach sticky side of URAS to the prepared substrate. Slowly walk backwards toward opposite wall while lightly pulling the URAS to help alleviate wrinkles in the product. Lower onto substrate. Double cut URAS to 2" wide SuperTape and smooth top surface (covered with wax paper liner) in place with a push broom. Repeat process but slightly overlap runs of URAS. **Double cut the overlapped (lengthwise) seams of URAS. Cut the URAS to where the Siga Super Tape starts.** The goal is to have the adhesives flat and smooth (not overlapped). Remove the waste. **Note:** Do not remove the top liner from either the URAS or the SuperTape.



**Rough Cut Titanium Flooring:** Unroll preconditioned Titanium flooring as is shown in T1 and T2. Overlap the lengthwise seams by at least 1.5 inches in preparation for double cutting. Leave the ends about 6 inches long. **Note:** Do not remove liner from either the URAS or the SuperTape.

**Note:** The Titanium sheet vinyl must be capable of lying flat with no adhesive prior to installation. **Note:** See section 3 (*Application*) for full details.

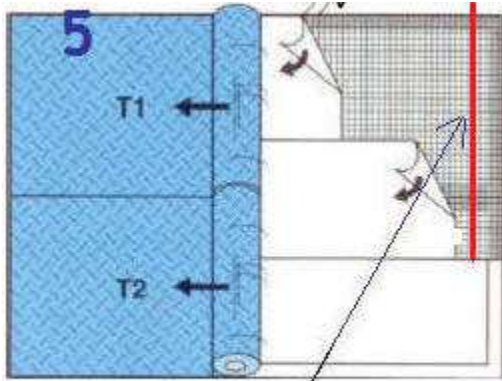


**Installing Ground Foil and Titanium Flooring, 1st 1/2 of area:** Roll back floor covering runs T1 and T2 to the middle of the area (in the direction of the run). Remove the liner from the exposed SuperTape (v). Starting at wall, remove the liner from the exposed URAS for about a foot (full width of install).

About 6 inches from the wall (and going over the exposed URAS) place a run of 2" wide aluminum or 1/2" wide copper ground foil full length of install area (see red line on the drawing). It is imperative that this strip makes reliable contact with the conductive backing of the flooring material.

Copper or Aluminum Ground foil placed over exposed URAS

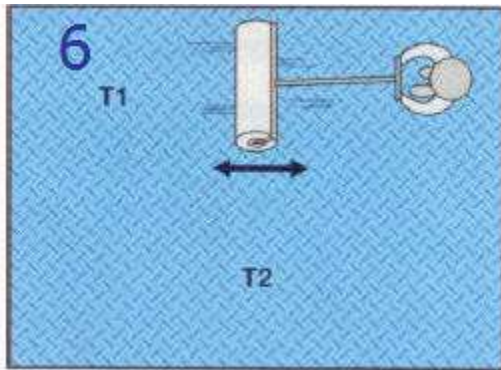
A 1/2" wide copper ground strip may also be placed over the run of the SuperTape for redundant grounding. The ground strips may be attached to an AC electrical ground by an electrician or positioned to intersect with an AC face plate cover and attached to ground as is shown [here](#) OR attached to a grounded metal column in the building as is [shown here](#). Where pieces of ground tape overlap, tap the top surface of the ground tape with a center punch to drive the copper (or aluminum) into the strip beneath.



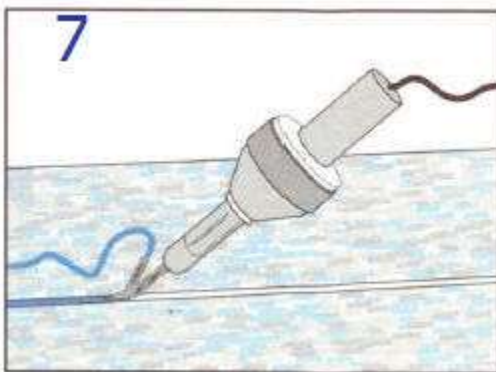
Copper or Aluminum ground foil tape installed over exposed URAS

**Installing Ground Foil and Titanium Flooring, 2nd 1/2 of area:** Roll back floor covering runs T1 and T2 to the middle of the area where the liner covered area stops. Remove the liner from the exposed SuperTape (v). Starting at wall, remove the liner from the exposed URAS for about a foot (full width of install).

Repeat the grounding process shown in figure 4. Dispose of the paper liner dross. Lay the floor covering over the exposed tapes. Continue the length wise overlap started on the 1st 1/2 (drawing 4). **Double cut overlapped lengthwise seams of the Titanium sheet vinyl** (cut through both pieces at once) using a hook blade knife. Remove dross and trim ends to wall.



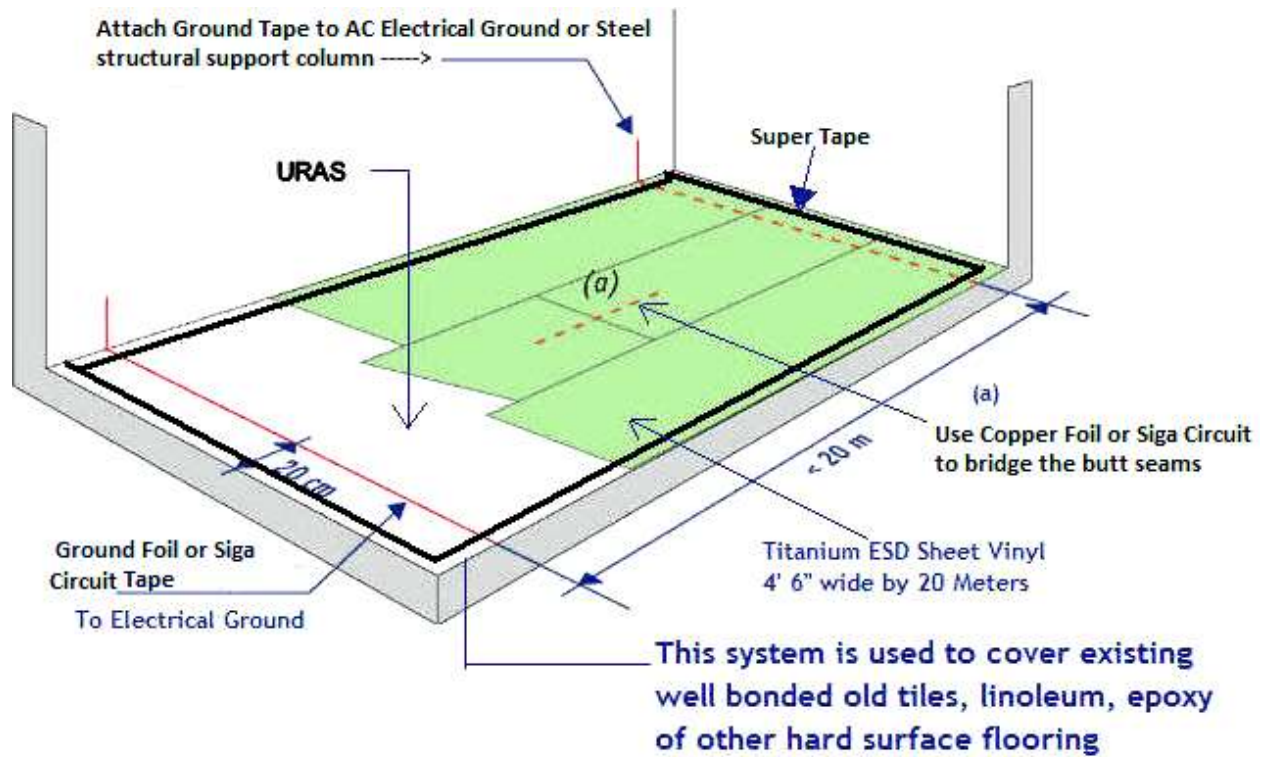
**Roll flooring:** Roll flooring in all directions using a standard 100 to 150 pound vinyl roller.



Groove and heat weld seams to industry accepted standards. **Note:** The heat welds shall be structurally sound and an integral part of the flooring (not simply a filler for the groove). Practice heat welding a mockup if unfamiliar with the materials. The heat weld should be so well bonded that trying to remove the bead will tear out sections of the flooring rather than just the heat weld.

Note: flooring may be heat welded immediately after installation. Floor may be opened to traffic immediately after the installation.

## MASTER DRAWING



[Contact Tech Support with questions](#)

Our direct number: 719 676 3928 (extension 7000).

Revision History:

2.13.2018: Initial Release. Approved SRC

7.26.2024. Review for accuracy. Approved SRC