

Armor-Tile

Tactile Systems

Installation Manual

Armor-Tile Surface Applied Inline Dome Detectable/Tactile Warning Surface Tile

- A. During all surface preparation and Surface Applied Detectable/Tactile Warning Surface Tile installation procedures, ensure adequate safety guidelines are in place and that they are in accordance with the applicable industry and government standards.
- B. The application of all tiles, adhesives, mechanical fasteners, and caulking shall be in strict accordance with the guidelines set by their respective manufacturers.
- C. Coordinate with the Contractor or Engineer to ensure that the surfaces being prepared and fabricated to receive the tiles are constructed correctly and adequately for tile installation. Review design drawings with the Contractor prior to the construction and refer any and all discrepancies to the Engineer.
- D. Set the tile true and square to the curb ramp area as detailed in the design drawings, so that its location can be marked on the concrete surface. A thin permanent marker works well. Remove tile when done marking its location.
- E. The surface to receive the Surface Applied Detectable/Tactile Warning Surface Tile is to be mechanically cleaned with a diamond cup grinder or shot blaster to remove any dirt or foreign material. This cleaning and roughening of the concrete surface should include at least 4 inches around the perimeter of the area to receive the tile, and also along the cross pattern established by the corresponding areas on the backside of the tile. Those same areas should then be cleaned with a clean rag soaked in Acetone.
- F. Immediately prior to installing the Surface Applied Detectable/Tactile Warning Surface Armor-Tile, the concrete surfaces must be inspected to ensure that they are clean, dry, free of voids, curing compounds, projections, loose material, dust, oil, grease, sealers and determined to be structurally sound and cured for a minimum of 30 days.
- G. Using Acetone, wipe the backside of the tile around the perimeter and along the internal cross pattern, to remove any dirt or dust particles from the area to receive the adhesive.
- H. Apply Tactile Bond and Seal adhesive to the backside of the tile, following the perimeter and internal cross pattern established by the tile manufacturer. Sufficient adhesive must be placed on the prescribed areas to have full coverage across the 2" width of the adhesive locator and should be applied to within 1/4" continuously around the perimeter edge of the tile.* The entire tube of adhesive should be applied to the back of each tile, sizes 24" x 36" and greater.

** The state of Florida requires the back of the tile to have complete adhesive coverage, for all FDOT installations an additional tube of Tactile Bond and Seal is required. Apply as directed and spread with a notched trowel to ensure complete coverage.*



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I. Set the tile true and square to the curb ramp area as detailed in the design drawings.

J. Working from the center of the tile outwards, proceed to drill and install all fasteners in the tile's molded recesses.

K. Standing with both feet applying pressure around the molded recess provided in the tile, drill a hole true and straight to a depth of 3½" using a 1/4" drill bit. Drill through the tile without hammer option until the tile has been successfully penetrated, then with hammer option to drill into the concrete. Maintaining foot pressure on both sides of the hole while drilling prevents concrete dust from accumulating between the tile and concrete which can affect the tile being installed flush and may compromise installation integrity.

L. Immediately after drilling each hole, before moving on to the next, and while still applying foot pressure, mechanically fasten tiles to the concrete substrate using a leather bound or hard plastic mallet to set the fasteners. Ensure the fastener has been placed to full depth in the dome, straight, and flush to the top of dome. Drive the pin of the fastener with the mallet, taking care to avoid any inadvertent blows to the truncated dome or tile surface.

M. Following the installation of the fasteners, the concrete dust should be vacuumed, brushed or blown away from the tile's surface and adjacent concrete. Using Acetone on a rag, wipe the concrete around the tile's perimeter to ensure a clean, dry surface to receive perimeter sealant.

N. Tactile Bond and Seal caulking sealant should be applied. Tape all perimeter edges of the tile back 1/16" from the tile's perimeter edge and tape the adjacent concrete back 1/2" from the tile's perimeter edge. Apply sealant around tile perimeter using care to work sealant into any void between the tile and concrete interface. Tool the perimeter caulking with a plastic applicator or spatula to create a straight edge in a cove profile between the tile and adjacent concrete. Remove tape immediately after tooling perimeter caulking sealant.

O. Do not allow foot traffic on installed tiles until the perimeter caulking sealant has cured sufficiently to avoid tracking. Adhesive or caulking on the surface of the tile can be removed with Acetone.

P. If installing adjacent tiles, note the orientation of each tile. Careful attention will reveal that one of the long edges of the tile is different than the other in regard to the tiny dotted texture. You may also note a larger perimeter margin before the tiny dotted texture pattern begins. Consistent orientation of each Armor-Tile is required in order that the truncated domes on adjacent tiles line up with each other.

Q. If tiles are custom cut to size, if pre-molded recesses (to receive fasteners) are removed by the cut, or to maintain a tight installation to the substrate then any truncated dome can be center-drilled with a 1/4 inch through hole, and countersunk with a suitable bit, to receive mechanical fasteners. Care should be taken to not countersink too widely or deeply. Fasteners should be flush with the top of the truncated dome when countersunk properly.



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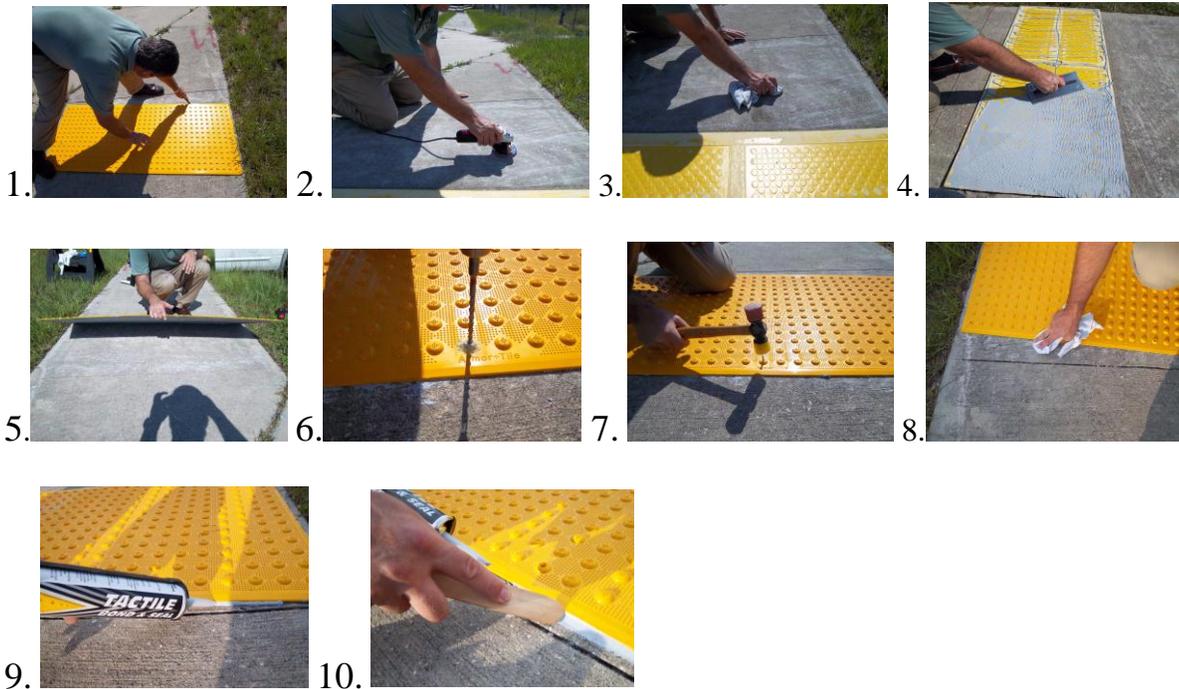
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Surface Applied Installation Instructions



1. Place the Armor-Tile in the designated location and trace the perimeter with a thin permanent marker or pencil.
2. Set the tile aside and using a 4" diamond cup grinder, scour the concrete within the marked location and on a cross pattern corresponding with the boss on the backside of the tile to remove any dirt or foreign material.
3. Clear away the dust with a leaf blower then clean the back of the tile and the concrete with rag and Acetone.
4. Apply Tactile Bond and Seal to the back of the Armor-Tile, along the perimeter and all points of contact. **The state of Florida requires the back of the tile to have complete adhesive coverage on all areas that contact the concrete, for all FDOT installations an additional tube of Tactile Bond and Seal is required to completely cover the boss (flat) portion of the tile.**
5. Set the tile true and square to the curb ramp and press down firmly.
6. Keeping weight on either side of the pilot hole, drill down 3 ½" into the concrete using a hammer drill and the recommended diameter drill bit. Drill through the tile without the hammer option until the tile has been penetrated, then with the hammer option drill into the concrete.
7. While still applying pressure, remove the dust and any adhesive that surfaces and carefully set the mechanical fastener with a hammer. To prevent damage to the tile, a plastic dead blow or leather hammer is recommended. Repeat 6 & 7.
8. Clean the perimeter of the tile and the immediately surrounding concrete with Acetone making sure to remove any adhesive that has escaped from beneath the tile.
9. Apply Tactile Bond and Seal to the perimeter of the tile to protect against water or debris from getting under the tile once installed.
10. Using a plastic applicator or spatula smooth out the sealant (Tactile Bond and Seal) in a cove profile between the tile and adjacent concrete.



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