

INSTALLATION RECOMMENDATIONS

PAVERTILE

Prior to Installation:

The PaverTile tiles intended for this installation have been shipped to you on pallets with the tiles shrink wrapped and strapped. Once the packing is removed, please inspect the exposed edges for any damage. Next confirm shipment to packing list and notify supplier of any damage or shipment discrepancies.

SureStick adhesive is available in 1 gallon and 5-gallon containers. SureStick is a one-component, moisture curing polyurethane adhesive. It is used to adhere all tiles to the substrate. Store the adhesive in a dry place at a temperature between 60 and 80 degrees F. Adhesive should be used immediately after opening. Opened adhesive containers should be resealed, stored indoors at temperatures between 60 and 80 degrees F, and away from moisture, and used as soon as possible. Extended storage may lead to reaction with ambient moisture making the adhesive unusable.

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SECTION 1 - Tools and Equipment Necessary for Installation

- ✓ Rubber Gloves
- ✓ Safety Gloves
- ✓ Safety glasses
- ✓ Two tape measures, 25 foot and 50 foot
- ✓ Utility knife with heavy duty blades
- ✓ Chalk Line
- ✓ Carpenters Square
- ✓ 1/8 square notched trowels (2 minimum)
- ✓ Water Spray Bottles (if required)
- ✓ One and 5 gallon paint stirrers

SECTION 2 - Sub Surface Requirements for Paver Tile

PaverTile tiles are typically installed over concrete or asphalt. Contact EMC or your PaverTile representative with questions about installation over other types of surface

All sub surfaces should be properly excavated and installed to insure:

1. Sub surface drainage.
2. Non-Separation of concrete layers.
3. Prevention of heaving due to freeze/thaw or unstable ground conditions.

The stabilization of the sub surface is the sole responsibility of the installer and/or owner.

Sub surface installation should assure good drainage of the area by either a well-defined gradient of the surface (2% slope is recommended) or a well-placed drainage pipe in lower spots of the installation.

Concrete Surfaces

Concrete surfaces must be thoroughly cured and free from hydrostatic pressure before installing PaverTile tiles (minimum 28 days after pour) with Sure Stick Adhesive.

All surfaces should be clean, dry and contain no low spots that could pond water before applying adhesive for installation. A light broom finish is recommended for maximum adhesion. The concrete surface should be free from paint, dirt, oil, or other surface contamination before applying Sure Stick adhesive.

Any separation of concrete layers, heaving, etc. may result in separation of the installed safety surfacing and is the sole responsibility of the installer and/or owner.

Assure good drainage of the area by either a well-defined gradient of the surface (2% slope is recommended) or a well-placed drainage pipe in lower spots of the area.

Asphalt Sub Surface

Asphalt sub surface should be hard, free of grease, oil, and other contaminants and contain no low spots which could pond water. Avoid installation on new asphalt until surface oil has had time to dissipate (minimum 30 days after compacting) and drainage can be evaluated. Avoid very coarse aggregates or those with high fines content. Aggregate sizes between 3/8 inch and 1/2 inch are recommended.

Any separation of asphalt or blacktop layers, heaving etc. may result in separation of the installed safety surfacing and is the sole responsibility of the installer and/or owner.

Insure good drainage of the area by either a well-defined gradient of the surface (a 2% slope is recommended) or a well-placed drainage pipe in lower spots of the area.

SECTION 3 - Site Layout

1. Measure and mark the center points of two opposite sides of the proposed installation. Snap a chalk line between these center points. Measure and mark the center of this chalk line. From this point use a carpenter's square to establish a second line perpendicular to the first line. Snap a chalk line on this second perpendicular line. The intersection of these lines should be the center of the planned installation. The perpendicular chalk lines will be used to lay the first courses of tile. (Laying tile from the center outward will insure that the installation will be symmetrical, that is any trimming of edge tiles, if required, will be approximately equal on opposite sides of the installation.)
2. Use the right triangle method to check for squareness. Measure and mark one line 3 feet from the center point. Measure and mark a point on the perpendicular layout line 4 feet from the center point. Measure the (diagonal) line between these points. This distance should be exactly 5 feet. Make corrections (to squareness) if necessary.

SECTION 4 - Installation

1. Insure that the base surface is clean, dry and contains no low spots which could pond water. Tiles must be dry.
2. Check ambient air temperature. Recommended ambient temperature for tile installation is 60 to 90 degrees F.

EMC is not responsible for gapping or buckling that may occur due to installation outside of recommended temperatures.

3. PaverTile Tiles are shipped to the project on pallets. Tiles should be laid out individually to allow them to acclimate. PaverTile Tiles are made with recycled rubber which will expand and contract with changes temperature and exposure to sunlight. Tiles may expand beyond the published dimensions in high temperature conditions. The

installer may need to measure and hand select tiles during installation to maintain straight course lines.

4. The initial tile courses should be laid along the two perpendicular course lines established in Section 3 Site Layout. Additional courses follow (abut) these initial tile courses until all tile are installed.
5. Wear rubber gloves and safety glasses when working with SureStick adhesive. After opening the SureStick adhesive, if necessary, gently stir the adhesive to insure a homogeneous mixture

Apply the SureStick adhesive with a 1/8 in. square notched trowel to the substrate (concrete or asphalt) where the first course of tile will be laid, covering an area slightly wider than the width of tile. Coverage rate for SureStick is 40 to 50 square feet per gallon. In general coverage over asphalt is somewhat less than that over concrete. However installers should monitor adhesive application to insure that an adequate thickness of adhesive (minimum one millimeter/.04 inch thick) is always present. Set the tiles firmly into the adhesive. Continue this process with subsequent courses of tile until all tiles are installed.

6. The outermost courses of tiles should abut a containment perimeter (e.g. wall, border) or be backfilled with earth or other material to avoid a (one-half inch) change in elevation at the edge of the installation.

If this is not possible and a transition to the surrounding concrete or asphalt base is required or desired, EMC's one inch transition ramps may be cut to a one-half inch height to accomplish this. These ramps are 4 feet long and 4 inches wide. Starting at the narrow edge of the ramp mark the ramp surface at the point at which the ramp is one-half inch thick. Do this at both ends of the ramp. Using a metal straight edge and chalk or light colored marking pencil, draw a line between these two points. Using the metal straight edge and a utility knife cut the ramp in two lengthwise, being sure that the cut is in a vertical, downward direction. (Cutting the ramps in half, to a length of two feet, may facilitate this process.)

Abut the cut edge of the ramp to the installed Paver Tile tiles to ensure that the tile and the top of cut ramp are approximately equal in height, providing a smooth transition from ramp to tile. If this is not the case cut another ramp, adjusting the cut height of the ramp as required.

Once the cut ramp/transition piece is of proper height, use the cut ramp/transition piece to mark all subsequent ramps to be cut. This will ensure that cut ramps/transition pieces are approximately equal in width and thickness.

After all ramps have been cut, abut the one half inch cut faces of the cut ramps/transition pieces to the outermost tile courses and adhere with SureStick adhesive.

7. Cutting tile edges should be avoided if possible. If cutting is required, for example to abut a wall or containment perimeter, tile may be cut with utility knife and straight edge, again using a shipping pallet as a cutting table. Cut tile edges should never be left exposed or abutting another tile, but rather always being abutted to a containment perimeter or transition edge.
8. The SureStick adhesive should cure within 24 hours if installed at recommended installation temperatures (60 to 90 degrees F) and at $\geq 50\%$ relative humidity. Under very dry conditions a light mist of water (about 11 ounces per 100 sq ft of adhesive) can be applied to the adhesive prior to setting the tiles to facilitate curing.
9. Allow a minimum of 24 hours before allowing any traffic or activity on the tile surface.

SECTION 5 - Disclaimer

These installation guidelines represent a typical installation and generally accepted installation practices should be followed. Use of trained installation professionals is recommended for best results.

Environmental Molding Concepts does not warrant any installation work and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from incorrect or inadequate installations.