

INSTALLATION RECOMMENDATIONS

PAVERTILE

Prior to Installation:

The Paver Tile and transition pieces intended for this installation have been shipped to you on pallets with the mats 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.

Installation surface should be clean and dry prior to installation. Mats must be clean and dry prior to installation. Moisture acts as a catalyst to the **Sure Stick** Adhesive, so dry mats and surface are essential.

Temperature variations will also affect the tiles. Tiles will contract in cold weather and expand in warm weather. This is a natural effect of the rubber and is to be expected. This will not lessen the impact resilience of the mat in meeting ASTM Standard F1292 as they pass the resilience tests at both low and high temperatures.

Review engineering plans for layout and ensure that the Consumer Product Safety Commission recommendations for a fall zone are met (Handbook for Public Playground Safety) and contact owner/agency with any discrepancies.

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SECTION 1 - Tools and Equipment Necessary for Installation

- ✓ Rubber Gloves
- ✓ Safety Gloves
- ✓ Razor Knife with Extra Blades
- ✓ Chalk Line
- ✓ Carpenters Square
- ✓ Paint Roller Frames, Roller Extensions and Fluffy Rollers
- ✓ Paint Roller Trays
- ✓ Water Spray Bottles (Mist)
- ✓ Rubber Hammer
- ✓ Measuring Tape
- ✓ ½" Electric Drill
- ✓ Hole saws (to cut diameter of equipment supports)
- ✓ Aluminum Clips (if required)

SECTION 2 – Adhesive

Sure Stick Adhesive is available in 1 gallon and 5-gallon containers. The adhesive is used to secure the outside perimeter (mats, corners, and/or ramps) of each installation. It can also be used to secure the interior mats, if required. Approximate coverage is 55 to 60 square feet per gallon of adhesive. The type and porosity of the substrate will affect the coverage rate. The adhesive is to be rolled into place (thick film) onto the asphalt or concrete base surface. A misting of water can be added (once adhesive is rolled into place) to act as a catalyst if a faster cure time is required. STORE the adhesive in a dry place. Do not subject Adhesive to freezing temperatures under any conditions.

SECTION 3 - Transition Pieces

Transition pieces (1" Ramps only) are 48" long x 4" wide, reducing from 1" down to 3/8".

SECTION 4 - Sub Surface Requirements for Paver Tile

Paver tiles may be applied to concrete, asphalt, wood, and compacted crushed gravel/geotextile overlay sub surfaces.

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 or well-placed drainage pipe in lower spots of the installation.

The **Paver** tiles shall be adhered to the concrete, asphalt, geotextile or wood surface using **Sure Stick** adhesive and/or SureKONNECT Pin system following the installation instructions for adhered installations. Your distributor should be contacted regarding the best application conditions for your installation.

Concrete Surfaces

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

All surfaces should be flat, level, clean, and dry before applying adhesive for installation. The concrete finish should be reasonably smooth to reduce the amount of adhesive required.

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 or well placed drainage pipe in lower spots of the area.

Asphalt Sub Surface

Asphalt sub surface must be hard, level, and free of grease, oil, and other contaminants. Avoid installation on new asphalt until surface oil has had time to dissipate (minimum 30 days after compacting) and drainage can be evaluated.

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 or well-placed drainage pipe in lower spots of the area.

Wood Sub Surfaces

The wooden sub surface should be properly secured to ground to avoid any ground shifting (as by pile or other means) and subsequent sub floor movement. The sub floor should be protected and sealed from moisture prior to installation of **Paver** tiles. The sealer should be completely dry before installation. The sealer should be compatible with SureSTICK adhesive before tiles are applied (avoid use of surface treatments that leave oil residues on surface).

The wood surface should be free from any protruding nails and screws. All damaged wood should be replaced on old surfaces.

The surface should be level, clean and dry before application.

SECTION 5 – Installation

ADHERED SYSTEMS

Installation Checklist:

1. Insure that the base surface is clean, level, and dry. Tiles must be dry.
2. Check ambient air temperature. Minimum temperature for installation is 50 degrees and rising. Paver Tile Tiles are manufactured to 24" X 24" dimension plus or minus 1/8". Tiles should be checked prior to installation to ensure that the tiles are properly conditioned. Tiles with dimensions smaller than 23 7/8" or larger than 24 1/8" must be conditioned prior to installation. Installing tiles that are larger than 24 1/8" (hot weather) will result in "gapping" between tiles when the ambient temperature cools.

EMC is not responsible for gapping that occurs due to high temperature conditions at the time of installation.

3. Please note: All play equipment must be permanently installed prior to mat surfacing installation.

Surfacing Layout

Lay tiles (transition pieces if required) from the further corner along base edge in two directions. (90 Degrees) Lay out the rest of the installation, leaving out any tiles that must be “cut to fit”. Keep edges straight and aligned horizontally and vertically.

Installation of Surfacing Product

Once installation layout has been completed; adhere all perimeter pieces. If drainage is a concern, allow a ¼” gap between each Ramp piece for drainage. Install balance of surfacing using generally accepted installation procedures in compliance with engineering detail drawings for installation.

Interior surfacing can be adhered to the substrate; unitized as one continuous piece using SureKONNECT Pins affixed at index points in each mat; or left unattached to the substrate and left to float.

Adhesive

SureSTICK adhesive is a one part “glue” and is ready to use straight out of the container. Do not open container prior to time for use in installation. A misting of water may be applied to the adhesive after it is spread to act as a catalyst to decrease cure time. Adhesive is spread in a thick film coat on the substrate and each gallon will adhere approximately 55 to 60 square feet of surfacing.

SureKONNECT Pin Installation

For non-permanent installations SportsPlay Mat can be installed using EMC’s unique SureKONNECT Pin installation. SureKONNECT Pins are approximately 3” long and are made of hard black plastic with ferruled edges which hold them in place inside the rubber tile once they have been inserted into the pre-drilled holes on the Paver tiles.

Each Paver Tile has 3 holes on each side. To install with the SureKONNECT Pins start by inserting the pins into the holes on opposite sides of each tile. Lay the tiles following your

specific project lay lines and connect the tiles by pushing the tiles together. **To close the gap** use a rubber mallet to “bang” the tiles tightly together approximately 1” from the edge of adjoining tiles directly above the SureKONNECT Pin. It is highly recommended that a rubber mallet be used in lieu of a “metal” headed hammer to reduce the chance of damaging the tile.

SECTION 6 - Cure Time (Typical Installation)

The cure time of Sure Stick Adhesive is dependent on several factors. The moisture levels and temperature levels of the substrate and the ambient air temperature and relative humidity will affect the time required for the adhesive to cure. Generally, the higher the temperature; the shorter the cure time, and the higher the moisture levels, the shorter the cure time.

The following information is provided based on trial installations performed with the Sure Stick Adhesive to determine approximate cure times under various temperature and humidity conditions.

<u>Temperature</u>	<u>Relative Humidity</u>	<u>Approximate Cure Time</u>
115° F	> 50%	4 hours +
70° F	> 50%	18 hours
45° F	> 50%	30 hours

The approximated cure time can be decreased with the addition of a catalyst (water).

Once the adhesive is in place and has been allowed to penetrate existing hard surface, (and prior to mat placement) a light fine spray of water (catalyst) on the adhesive will shorten the cure time. The adhesive will react to the spray by forming small bubbles (frothing appearance). Then, place the SportsPlay mats in the normal fashion, as per the installation instructions.

SECTION 7 - 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.