

**Greatmats.com**

**Roof DeckTop Tiles**

**INSTALLATION  
RECOMMENDATIONS**

**Prior to Installation:**

The Roof Decktop Architectural Tiles 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.

Temperature variations will 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. Roof Decktop Architectural Tiles ARE NOT intended for playground application. Roof Decktop Architectural Tiles have not been tested versus ASTM 1292 and should not be installed in applications requiring a Critical Fall Height rating for either Head Impact Attenuation or G-max.

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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  
Rubber Hammer  
Measuring Tape  
½” Electric Drill  
Hole saws ( to cut diameter of equipment supports)

## **SECTION 2 – Adhesive (Not Applicable for Roof Membrane Installation)**

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 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 (Ramps) are 48” long x 4” wide, reducing from 1 3/8” down to 3/8”.

## **SECTION 4 - Sub Surface Requirements for Roof DeckTop Tiles**

Roof Decktop tiles may be applied to concrete, asphalt, wood, compacted crushed gravel/geotextile and roof membrane overlay sub surfaces.

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

## Roof DeckTop Tiles

### Installation Recommendations

1. Sub surface drainage.
2. Non-Separation of concrete layers.
3. Prevention of Heaving due to freeze/thaw or unstable ground conditions.
4. Structural support to accommodate additional weight (roof top application)

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, well-placed drainage pipe in lower spots of the installation or through the use of tapered insulation on roof top applications.

The Roof DeckTop tiles shall be adhered to the concrete, asphalt, geotextile or wood surface using Sure Stick adhesive 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 Roof DeckTop 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 Roof DeckTop tiles. The sealer should be completely dry before installation. The sealer should be compatible with Sure Stick 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.

## **Roof Membrane Surfaces**

The roof membrane surface should be properly designed to provide adequate drainage and should be verified to accommodate the additional weight of the Roof DeckTop Architectural Tiles being installed over the existing roof membrane. Care should also be taken to verify with the manufacturer of the roof membrane the compatibility of the Roof DeckTop Architectural Tiles and any potential impact on the roof membrane manufacturer's warranty.

Greatmats.com is not responsible for any liabilities resulting from the installation of the Roof DeckTop Architectural Tiles over an existing roofing membrane.

## **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.
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**

Sure Stick 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 and roof top installations Roof Decktop Tiles can be installed using Greatmats' 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 Roof Decktop Tiles.

Each Roof Decktop 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 Roof Decktop tiles 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.

Greatmats.com 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.