

PERFORMANCE TURF INSTALLATION



Outdoor Installation Guidelines

Notice - For best results review the following guidelines prior to installation. Shaw will not be responsible for improper installation and failure to follow these guidelines may result in limiting warranty coverage.

These installation procedures are intended to assist in the installation of Shaw Performance Turf products under most job conditions. Specific questions regarding installation not covered within must be referred to Shaw Technical Support at 1.800.471.7429.

Any variance from these procedures will become the responsibility of the installer and not the manufacturer. Additional information regarding Shaw Performance Turf products can be found at www.philadelphia-commercial.com.

Surface Preparation

The installation surface must be visually dry and a minimum temperature of 50°F must be obtained by late morning / early afternoon in order to install outdoors.

Below are typical outdoor installation surfaces and Shaw's recommendations for the proper preparation of these surfaces:

- **Concrete** – must be clean, level and dry. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion. Depressions and cracks must be filled with a liquid latex additive cement based patching compound and all protrusions leveled.
- **New Asphalt** – must be allowed to cure under dry conditions for a minimum of 30 days and it is also advised to conduct a 24 hour adhesive bond test to assure proper adhesion.
- **Pressure Treated Decking** – we advise installing a marine grade plywood over the decking surface to prevent unevenness or gaps from telegraphing through the carpet. The marine grade plywood must be allowed to cure for a minimum of 30 days.
- **Composite Decking** – must be thoroughly clean and should it display any surface breakdown the surface should be sanded.

For additional information regarding these surfaces or others not featured please contact Shaw Technical Support at 1.800.471.7429.

Adhesive Requirements / Application

On extremely porous or rough floors, more adhesive and additional trowels will be needed. Spread rate should never exceed 12 square yards per 2 gallons or an installation failure may occur. This indicates a worn or improperly notched trowel.

Backing System	application	coverage
Urethane Unitary Broadloom	1/8" x 1/8" x 1/8" U-Notch	4-6 yds. per gallon
Polyurethane Cushion Broadloom	1/8" x 1/8" x 1/8" U-Notch	4-6 yds. per gallon

Trowel dimensions are width/depth/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions / texture, type of trowel used and setting practices.

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Outdoor Installation Guidelines

Flash time	Working time	Set time
0 minutes	30 - 45 minutes	1 - 3 hours

Flash time - Amount of time recommended for the adhesive to remain exposed to the air following application before the installation of turf

Working time - The maximum amount of time an adhesive can remain exposed to the air and still effectively bond the turf.

Set time - The window of time when adjustments can still be made to the position of the turf without compromising the bond of the adhesive.

Flash time, working time and set time vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions. For example, high heat and humidity will reduce working time and set time, low temperatures and humidity will extend working time and set time.

Shaw 7300 / Mapei Ultrabond PU2K Turf adhesive requires no flash time and turf products should be installed immediately.

The completed installation must maintain dry conditions for 72 hours in order for the adhesive to cure properly.

Site Layout

Dry lay the entire area to be installed to allow reduction of internal tensions caused by packaging and transportation.

Cutting Techniques

Polyurethane Cushion - Row Cut - Row Cut

Urethane Unitary - Row Cut - Row Cut from the backing using the raised tufting ridges as a guide.

Installation

- Apply Shaw 7300 adhesive according to the adhesive pail and Requirements / Application Chart.
- Install the turf material immediately.
- Roll the product with a 75 lb. weighted roller across the width and length of the product surface.
- The completed installation must maintain dry conditions for 72 hours in the order for the adhesive to cure properly.

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Outdoor Installation Guidelines

Installation Tips

- Cut and/or trim the turf salvage as needed. Fold back 1/2 of run in the width to expose the substrate.
- Mix pails according to the label instructions apply as many full pail quantities of adhesive to the substrate as possible for a period of 30 minutes or until sufficient adhesive has been completely applied to the exposed substrate.
- Install the performance turf into wet adhesive in increments as applying the adhesive, and roll the performance turf with 75 lb.roller.
- After each 30 minute application cycle, roll the previously installed section of performance turf to ensure that proper and full adhesive contact has been maintained.
- Should bubbles or wrinkles develop in the material, roll the material until the adhesive secures the material or place a weighted object (sand bag) on the bubble or wrinkle.
- Fold back the performance turf from the opposite side of the run, exposing the substrate and follow the same procedure as mentioned above..
- Repeat the mixing and application process in 30 minute increments until entire first run is installed into adhesive.
- Proceed with the second run of performance turf matching the seam if necessary. Continue with the mixing, application and installation process until the entire project is complete.

Transitions

Transition molding or strip that covers the carpet edge at least .” is recommended for unprotected edges.

Post Installation Care

The completed installation must maintain dry conditions for 72 hours in order for the adhesive to cure properly. Protect from light traffic for at least 6 hours. Protect from heavy traffic for at least 24 hours.

PERFORMANCE TURF INSTALLATION



Indoor Installation Guidelines

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These installation procedures are intended to assist in the installation Shaw Performance Turf Products under most job conditions. Specific questions regarding installation not covered within must be referred to Shaw Technical Support at 1.800.471.7429.

Any variance from these procedures will become the responsibility of the installer and not the manufacturer. Additional information regarding Shaw Performance Turf Products can be found at www.philadelphia-commercial.com.

Site Testing and Conditioning

The installation is not to begin until the HVAC system is operational and the following conditions are maintained. Maintain the temperature of the installation site, carpet, and adhesive between a minimum temperature of 65° F and a maximum temperature of 95° F for 24 hours before installation. The installation sites' ambient relative humidity should not exceed 65%. Maintain these conditions for 24 hours prior to, during and permanently afterwards.

Moisture requirements – Moisture testing must be performed. Shaw requires the use of the following test methods: Relative Humidity (RH) ASTM F-2170 results should be below 85% or the Anhydrous Calcium Chloride ASTM F-1869 results should not exceed 5.0 lbs. per 1000 square feet per 24 hours (2.27 kg/92.9m²/24 hours). Shaw recognizes the relative humidity (RH) test as the qualifying standard.

Do not begin the installation if an unacceptable moisture level is detected. If excessive moisture is present, the general contractor or building owner must be advised and a decision made if the installation is to begin. Shaw Industries will not be responsible for any moisture related installation failures if these guidelines are not strictly followed.

pH requirements – Test the pH of the concrete prior to beginning the installation. Check the concrete for surface pH at several locations. A reading below 5.0 or above 9.0 requires corrective measures. Specific information on the correct method of neutralizing low or high pH is available through Shaw Technical Support.

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Indoor Installation Guidelines

Substrate Preparation

All substrates must be structurally sound, clean, level and dry. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion. Depressions and cracks must be filled with a liquid latex additive cement based patching compound and all protrusions leveled.

- **Concrete** – must be clean, level and dry. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion. Depressions and cracks must be filled with a liquid latex additive cement based patching compound and all protrusions leveled.
- **Dusting / Powdering Concrete / Gypcrete** – Concrete floors must be sealed with liquid latex such as Shaw 9050.
- **Pressure Treated Decking** – we advise installing a marine grade plywood over the decking surface to prevent unevenness or gaps from telegraphing through the carpet. The marine grade plywood must be allowed to cure for a minimum of 30 days.
- **Wood** – must be Wood Association Approved and must be sealed with liquid latex such as Shaw 9050.
- **Backer Board** – must be primed with Shaw 9050 due to porosity and elevated pH of this product.

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Indoor Installation Guidelines

Adhesive Requirements / Application

On extremely porous or rough floors, more adhesive will be needed. Spread rate should never exceed 20 square yards per 2 gal. or an installation failure may occur. This indicates a worn or improperly notched trowel.

Backing System	application	coverage
Urethane Unitary Broadloom	1/8" x 1/8 x 1/8" U-Notch	8-10 yds. per gallon
Polyurethane Cushion Broadloom	1/8" x 1/8 x 1/8" U-Notch	8-10 yds. per gallon

Trowel dimensions are width/depth/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

Shaw 6300 adhesive must have adequate open time to become tacky prior to installation. The completed installation must maintain dry conditions for 72 hours in order for the adhesive to cure properly. Adhesive open time will vary depending on temperature, humidity, substrate porosity, trowel size and jobsite conditions. The adhesive is ready for turf installation when the entire ridge of glue becomes tacky. This can be checked by firmly placing a finger into the adhesive and lifting slowly. The glue should have legs or strings and not be wet at the floor surface to ensure a full transfer of adhesive.

Site Layout

Dry lay the entire area to be installed to allow reduction of internal tensions caused by packaging and transportation.

Cutting Techniques

Polyurethane Cushion – Row Cut – Row Cut

Urethane Unitary – Row Cut – Row Cut from the backing using the raised tufting ridges as a guide.

Installation

- Apply Shaw 6300 or approved alternative adhesive according to the Adhesive Requirements / Application Chart.
- Adhesive must be allowed to become tacky to touch prior to installing the product.
- Roll the product with a 75 lb. weighted roller across the width and length of the product surface.
- The completed installation must maintain dry conditions for 72 hours in order for the adhesive to cure properly.

Transitions

Transition molding or strip that covers the carpet edge at least .75" is recommended for unprotected edges or where carpet meets other floor coverings.

Post Installation Care

The completed installation must maintain dry conditions for 72 hours in order for the adhesive to cure properly. Do not allow exposure to foot traffic for a minimum of 24 hours.

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