

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.phillyqueencommercial.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 will be needed. Spread rate should never exceed 16 (unitary) 12 (cushion) 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	3/32" x 3/32" U-Notch Trowel	6-8 yds. per gallon
Polyurethane Cushion Broadloom	1/8" x 1/8" U-Notch Trowel	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.

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 Ultraload Turf PU1K 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 in the length / fiber direction. Implement roll sequencing to minimize normal variations. Manufacturing details will be backstamped on one side of the backing, this will assist in determining fiber direction.

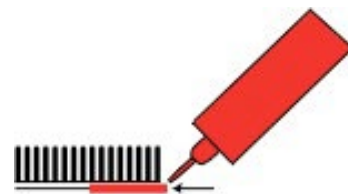
CUTTING TECHNIQUES

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 Requirements / Application Chart.
- Install the turf material immediately.
- Apply a bead of Shaw 8300 seam sealer to all seams.
- 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.



TRANSITIONS

Transition molding or strip that covers the carpet edge at least 1/2" 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.

Indoor 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 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.phillyqueencommercial.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.

FLOOR 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.

Indoor Installation Guidelines

ADHESIVE REQUIREMENTS / APPLICATION

On extremely porous or rough floors, more adhesive will be needed. Spread rate should never exceed 40 square yards per 4 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 Trowel	8-10 yds. per gallon
Polyurethane Cushion Broadloom	1/8" x 1/8 x 1/8" U-Notch Trowel	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 carpet 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 in the length / fiber direction. Implement roll sequencing to minimize normal variations. Manufacturing details will be backstamped on one side of the backing, this will assist in determining fiber direction.

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 DIRECT GLUE

- 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.
- Apply a bead of Shaw 8300 seam sealer to all seams.
- 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 1/2" is recommended for unprotected edges or where carpet meets other floor coverings.

Indoor Installation Guidelines

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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