

A wide-angle photograph of an indoor sports facility. The floor is covered in bright green artificial turf with white and yellow field markings. The facility has a high ceiling with exposed ductwork and recessed lighting. Large windows line the left and back walls, and a basketball hoop is visible in the background.

INDOOR & OUTDOOR **GLUE DOWN** **INSTALLATION** **GUIDE**

The Shaw Sports Turf logo, featuring the word "shaw" in a bold, lowercase sans-serif font, with "SPORTS TURF" in a smaller, uppercase sans-serif font below it. To the right of the text is a stylized graphic of three horizontal, overlapping curved shapes.

shaw[®]
SPORTS TURF



GENERAL INFORMATION

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 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.



SUBSTRATE PREPARATION

1 CONCRETE

- Must be clean, level and dry. Free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, or any other substance or condition that may prevent or reduce adhesion. A rough concrete finish is preferable for adhesion.
- Depressions or cracks must be filled with a liquid latex additive cement based patching compound and all protrusions leveled.



2 DUSTING | POWDERING CONCRETE | GYPCRETE

- Floors must be sealed with liquid latex such as Shaw 9050.

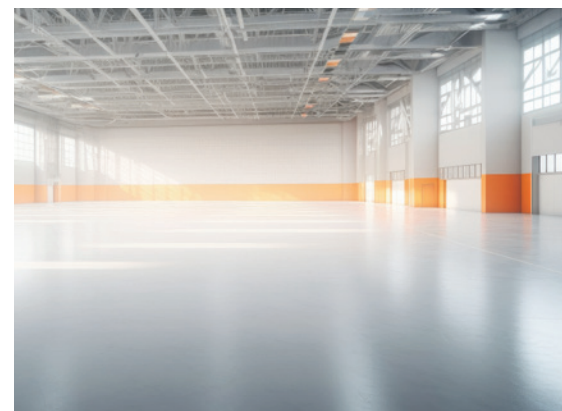


3 WOOD

- Must be Wood Association Approved and must be sealed with liquid latex such as Shaw 9050.

4 INDOOR APPLICATION ADDITIONAL PREPARATION

- Substrate temperatures must be 50°F or higher prior to installation for both indoor and outdoor installations.
- Wood: must be Wood Association Approved and must be sealed with liquid latex such as Shaw 9050.



SITE TESTING & CONDITIONING

INDOOR APPLICATION



1

Material should always be visually inspected prior to installation. Any material installed with visual defects will not be considered a legitimate claim as it pertains to labor cost.

2

HVAC System: Must be operational, maintaining the following conditions 7 days prior to, during and after installation.

3

Temperature: The installation site must be between 65°F and 85°F.

4

Acclimation: 72 hr. acclimation required for both flooring and adhesive.

5

Substrate Testing:

- **Moisture Testing per ASTM 1869:** CaCl results must not exceed 12 lbs.
 - **Moisture Testing per ASTM F-2170:** Results must not exceed 99%.
 - **pH / Alkalinity per ASTM F-710:** Results must be between 7 - 12.
 - If the subfloor exceeds these values, Shaw 7300 should be used to install the turf material.
-

6

Site Layout: Dry lay the entire area to be installed to allow the reduction of tension caused by packaging and transportation.



SITE TESTING & CONDITIONING

OUTDOOR APPLICATION

1

The installation site, turf, and adhesive needs to be between a **minimum temperature of 65°F** and a **maximum temperature of 95°F for 24 hrs.** before the installation. The installation sites' ambient relative humidity should not exceed 65%.

2

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 1,000 sqft. per 24 hrs. (2.27 kg/92.9m²/24 hrs). Shaw recognizes the relative humidity (RH) test as the qualifying standard.

3

DO NOT begin the in stallation 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.

4

Alkalinity 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.



ADHESIVE REQUIREMENTS

INDOOR APPLICATION

INDOOR APPLICATION GLUE: SHAW 3800

SUBSTRATE CONDITION	FLASH TIME	WORKING TIME
Porous	5-15 minutes (Tacky to Touch)	15-30 minutes
Non-Porous	10-30 minutes (Tacky to Touch)	30-45 minutes

ADHESIVE	TROWEL SIZE	COVERAGE	CaCl LIMIT	RH LIMIT	PH LIMIT
Shaw 3800	1/8 in. x 1/8 in. x 1/8 in. U-notch	4-6 sq. yds. / gal.	12 lbs.	99%	7-12



SHAW 3800 NOTICE

- On extremely porous substrates, more adhesive and additional trowels will be needed.
- Shaw 3800 adhesive must have adequate open time to become tacky prior to installation.
- Before traffic, the completed installation must maintain dry conditions for 72 hrs. 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.



ADHESIVE REQUIREMENTS

OUTDOOR APPLICATION

OUTDOOR APPLICATION GLUE: SHAW 7300

APPLICATION	COVERAGE
Turf to Sub-floor Outdoor Shaw 7300	Outdoor 12-14 sq. yds. per gal.



SHAW 7300 NOTICE

- Shaw 7300 is sold as one- and two-part adhesive system. If two-parts system is used component needs mixed together to create a hard set adhesive that will cure faster. Site conditions can accelerate curing times. Corrections to the turf installations, such as gapped seams, bubbles, lifted edges, must be addressed and corrected prior to the curing of the adhesive.

INDOOR/OUTDOOR APPLICATION TO CUSHION

APPLICATION	COVERAGE
Turf to Cushion Indoor Shaw 3800 Outdoor Shaw 7300	Indoor 4-6 sq. yds. per gal. Outdoor 12-14 sq. yds. per gal.
Cushion to Sub-floor Indoor Shaw 3800 Outdoor Shaw 7300	Indoor 8-33 sq. yds. per gal. Outdoor 12-14 sq. yds. per gal.

On extremely porous or rough floors, more adhesive will be needed. The spread rate from cushion to subfloor application should never exceed 25 sq. yds. per 2 gal. or an installation failure may occur. This indicates a worn or improperly notched trowel.

INDOOR | OUTDOOR INSTALLATION

GLUE DOWN TO SUB-FLOOR



1 LAYOUT

Review site to determine the direction where the turf seams may fall. Seams are preferred not be placed in doorways or pivot areas.

2 SEAM CUTTING TECHNIQUES (NO PATTERN)

Row Cut – Row Cut method is preferred. This can be achieved by cutting the seams from the back of the turf between the tufted rows. Using the blade closest to the seam edge, follow the procedure on both sides of the seam.

3 CREATURF CUTTING TECHNIQUES (PATTERN)

- Creaturf can be cut from the face, pattern to pattern, with a ribbed straight edge using a cushion back cutter.
 - Using the blade closest to the seam edge, follow the procedure on both sides of the seam.
 - The pattern that is trimmed and removed from one side must be left on the other side in order to match.
 - An alternative method would be to slit the carpet from the face along complementary pattern points and cut between the slits from the back using a straight edge.
 - These cutting methods apply on both side to side and end to end seams.
-

4 SEAM SEAING

All seams must be sealed with a quality seam sealer, such as Shaw 8300.

INDOOR | OUTDOOR INSTALLATION

OUTDOOR APPLICATION

5

INSTALLATION

- Cut and/or trim the turf selvedge as needed.
- Fold back ½ of the run in the width to expose the substrate.
- Apply appropriate adhesive (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 hrs. in order for the adhesive to cure properly.



- **In order to achieve proper fitted seams, Shaw Technical Support recommends:**

1

Edges must be trimmed and set into the adhesive prior to the adhesive setting up and curing.

2

The use of a crab stretcher. The crab stretcher can be used to pull seams together or pull fullness away from the seam.

3

Seams must be properly fitted, prior to the adhesive setting up.

4

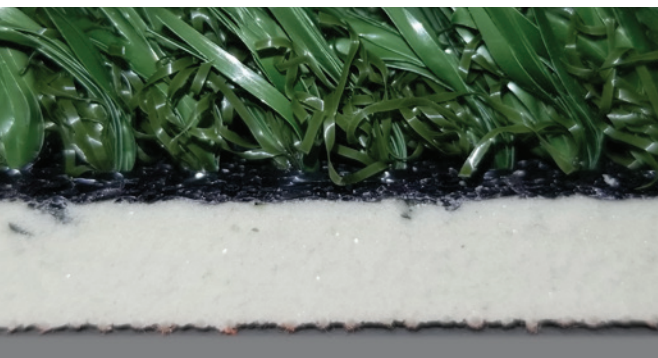
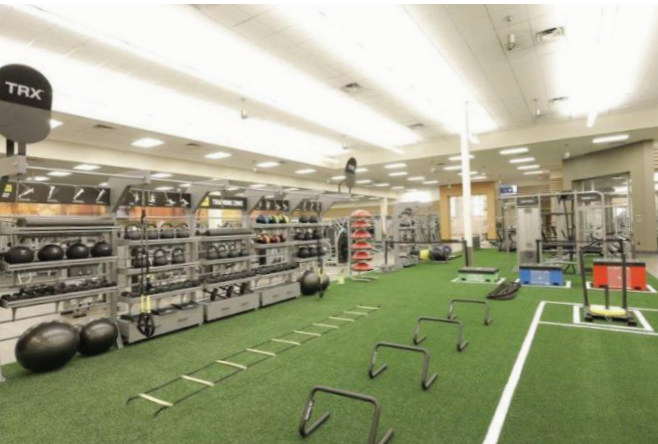
After applying glue to a seam, place turf into glue ensuring fibers are not trapped.

5

Roll seam continuously until the glue is sufficiently cured to ensure proper transfer. Proper transfer can be judged by taking channel locks and pulling up on turf at seam — if there is any give, you need to continue to roll. Once the glue is cured and kicked, there is no need to continue to roll.

INDOOR | OUTDOOR INSTALLATION

CUSHION



1 LAYOUT

Review site to determine the direction where the turf seams may fall. Seams are preferred not be placed in doorways or pivot areas.

- The cushion can be installed perpendicular to the turf seams, or:
- If the cushion is to be installed in the same direction as the turf, Shaw Technical Support recommends to offset the cushion seams to the turf seams.

2 CUSHION

- The top of the cushion is an open cell texture and will receive turf / turf adhesive.
 - The bottom layer of the cushion has a smooth surface, and will be adhered to the substrate.
-

3 INSTALLATION OF CUSHION TO SUBFLOOR

- By paint roller application or the proper notched trowel, apply appropriate adhesive over the properly prepared and tested substrate.
- Once the adhesive has been allowed time to tack, clear and tacky to touch with no transfer, the cushion can be installed.
- Installation of the cushion can be performed by rolling up the cushion prior to spreading of adhesive. Once the adhesive has properly cured, the cushion can then set / placed into the adhesive. Continue the same procedure until all rolls of cushion have been installed.
- Once all cushion has been installed, using a 75 – 100 lb. roller, roll the cushion to ensure that a proper adhesive bond has been formed. Ensure to roll in both length and width direction.

INDOOR | OUTDOOR INSTALLATION CUSHION

4 SEAM CUTTING TECHNIQUES

Row Cut – Row Cut method is preferred. This can be achieved by cutting the seams from the back of the turf between the tufted rows.

5 INSTALLATION

- Creaturf can be cut from the face, pattern to pattern, with a ribbed straight edge using a cushion back cutter.
- Using the blade closest to the seam edge, follow the procedure on both sides of the seam.
- The pattern that is trimmed & removed from one side must be left on the other side in order to match.
- An alternative method would be to slit the carpet from the face along complementary pattern points and cut between the slits from the back using a straight edge.
- These cutting methods apply on both side to side and end to end seams.



INDOOR | OUTDOOR INSTALLATION

CUSHION



6

INSTALLATION OF TURF OVER CUSHION

- 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.
 - Cut and trim the turf edges. Make sure seams are tight with little or no gaps.
 - Once seam placement has been established, fold back each seam $\frac{1}{2}$ of width of the turf roll.
 - Ensure turf adhesive is mixed according to manufacturer's guidelines.
- In order to achieve the proper spreading and usage of the premium turf adhesive, Shaw Technical recommends the following:

1

Premium turf adhesive has the tendency to set quickly based on site conditions and the length of the turf to be installed.

2

For best results, fold back $\frac{1}{2}$ of the turf in the length direction.

3

Apply properly mixed premium turf adhesive, with the proper notched trowel, the entire length the turf.

4

Once adhesive has been spread, place turf into the adhesive. The turf must be fully embedded into the adhesive to ensure a full transfer of adhesive.

5

Continue the installation by folding back the next $\frac{1}{2}$ width of turf, spread the premium turf adhesive, then place the turf into the adhesive.

INDOOR | OUTDOOR INSTALLATION

CUSHION

- In order to achieve proper fitted seams, Shaw Technical recommends the following:

- 1 Edges must be trimmed and set into the adhesive prior to the adhesive setting up and curing.
- 2 The use of a crab stretcher. The crab stretcher can be used to pull seams together or pull fullness away from the seam.
- 3 Seams must be properly fitted, prior to the adhesive setting up.
- 4 After applying glue to a seam, place turf into glue ensuring fibers are not trapped.
- 5 Roll seam continuously until the glue is sufficiently cured to ensure proper transfer. Proper transfer can be judged by taking channel locks and pulling up on turf at seam — if there is any give, you need to continue to roll. Once the glue is cured and kicked, there is no need to continue to roll.

- Using a 75 – 100 lb. roller, the turf should be rolled in the length and width direction.
- NOTE: Once adhesive has set up and cured, gapped seams, bubbles and lifted edges cannot be corrected without reapplying adhesive.

TRANSITIONS | POST INSTALLATION CARE

Transition molding or strip that covers the carpet edge at least ½ in. is recommended for unprotected edges.

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



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