

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 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.

1 | SITE TESTING & 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, turf, and adhesive between a minimum temperature of 65° F and a maximum temperature of 95° F for 24 hours before the 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.

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.

2 | 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.

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» Dusting / Powdering Concrete / Gypcrete — Concrete floors must be sealed with liquid latex such as Shaw 9050.

3 | ADHESIVE REQUIREMENTS / APPLICATION

On extremely porous or rough floors, more adhesive will be needed. The spread rate from cushion to subfloor application should never exceed 40 square yards per 4 gallons or an installation failure may occur. This indicates a worn or improperly notched trowel.

APPLICATION	TROWEL / ROLLER	COVERAGE
Turf to Elevate Cushion (Shaw 7300, Mapei PU2K)	1/8" x 1/8 x 1/8" U-Notch	4-6 sq.yds. per gallon
Elevate Cushion to subfloor (Shaw 5000, 5100)	1/16" 1/32" x 5/64" U-Notch 3/8" Foam / Medium Nap Roller	28-33 sq.yds. per gallon 35-40 sq.yds. per gallon

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

NOTICE: Shaw 7300 / Mapei PU2K are two part adhesive systems. Mixing both components together will create a hard set adhesive that will cure faster once mixed. 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.

Shaw 5000/5100 adhesive must be tacky to the touch with no transfer prior to the installation of Elevate cushion.

4 | SITE LAYOUT

Review site to determine the direction where the turf seams may fall. Seams are preferred not be placed in doorways or pivot areas. Once the turf seam placement has been determined, Shaw Technical Support recommends the following:

- » The Elevate cushion can be installed perpendicular to the turf seams, or:
- » If the Elevate 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.

5 | ELEVATE CUSHION

This cushion has two different distinct surfaces. 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.

6 | INSTALLATION OF ELEVATE CUSHION TO SUBFLOOR

- » By paint roller application or the proper notched trowel, apply Shaw 5000 / 5100 / 5900 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 elevate cushion can be installed.
- » Installation of Elevate Cushion can be performed by rolling up the cushion prior to spreading of adhesive. Once the adhesive has properly cured the Elevate Cushion can then set / placed into the adhesive. Continue the same procedure until all rolls of cushion have been installed.
- » Once all Elevate 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.

7 | 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.

8 | INSTALLATION OF TURF OVER ELEVATE 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 ½ 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:
 - Premium turf adhesive has the tendency to set quickly based on site conditions and the length of the turf to be installed.
 - For best results, fold back ½ of the turf in the length direction.
 - Apply properly mixed premium turf adhesive, with the proper notched trowel, the entire length the turf.
 - 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.
 - Continue the installation by folding back the next ½ width of turf, spread the premium turf adhesive, then place the turf into the adhesive.
- » In order to achieve proper fitted seams, Shaw Technical Support recommends:
 - Edges must be trimmed and set into the adhesive prior to the adhesive setting up and curing.
 - The use of a crab stretcher. The crab stretcher can be used to pull seams together or pull fullness away from the seam.
 - Seams must be properly fitted, prior to the adhesive setting up.
 - The use of stay nails is not recommended.
 - Seams may require to be weighted through the use of sand bags or boards.
- » 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.

9 | TRANSITIONS

Transition molding or strip that covers the turf edge at least ½" is recommended for unprotected edges or where turf meets other floor coverings.

10 | POST INSTALLATION CARE

Do not allow exposure to foot traffic for a minimum of 24 hours.