

Shaw 5100 Specification

ADHESIVE FOR ECOWORX® AND ECOLOGIX® MODULAR CARPET TILE

Any variance from these procedures will become the responsibility of the installer and not the manufacturer. See Shaw’s Modular Installation Guidelines for additional information. Installation guidelines can be obtained by contacting us at the number below. For installation assistance please contact Shaw Product Support at 1.800.471.7429.

Shaw 5100 offers a new formulation for even greater performance. Faster dry times and enhanced, more aggressive tack make Shaw 5100 the perfect choice for fast-track carpet tile installations. Shaw modular products can be installed into wet adhesive for permanent bonding or allowed to dry to its tacky phase for releasable installations. Shaw 5100 can be applied by spray, roller or trowel depending on installation requirements.

FEATURES AND BENEFITS

- Aggressive tack to hold carpet tile in place during installation and use
- Permanent or releasable installation system applications
- New lower-odor formula for use in occupied buildings
- Mildew resistant and non-staining
- CRI Green Label Plus certified & SCAQMD Compliant

Weight	Pallet Qty.	Pallet Weight
39 lbs.	48	2083 lbs.

Laboratory Tests	Results
Polymer type	Acrylic polymer
Percent solids	40% to 60%
VOCs Rule #1168 of California’s SCAQMD	19 g/L
Trowelability	Light
Density	8.3 lbs./U.S. gal. (3.77 kg/3.79 L), (+/- 0,8) 1.0 g/mL (+/- 0.1)
Consistency	Creamy
Color	Off White
Tracer	None
Shelf life	1 year when stored in original packaging at 73° F (23°C)
Storage conditions	65°F to 95°F (18°C to 35°C)
Flash point (ASTM D56)	> 212°F (100°C)
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic

Although the adhesive is freeze/thaw stable, protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

ENVIRONMENTAL

- Meets the requirements of California South Coast Air Quality Management District Rule 1168
- Meets the requirements of California DHPS Section 01350
- CRI Green Label Plus Certified #60111

LEED (VERSION 3.0) CONTRIBUTION

MR Credit 5, Regional Materials	Up to 2 points
IEQ Credit 4.1, Low-emitting Materials, Adhesives & Sealants	1 point
IEQ Credit 4.3, Low-emitting Materials, Flooring Systems	1 point

1-YEAR WARRANTY

This product is covered by a 1-year limited warranty. For information on this limited warranty, please ask your authorized Shaw retailer or contact the number below.

INSTALLATION INSTRUCTIONS FOR ADHESIVE

For more detailed instructions, refer to Shaw’s Modular Installation Guidelines and the CRI Installation Standard. The substrate must be structurally sound, solid, stable, level, even, flat, smooth and dry.

1. CHECK THE MOISTURE LEVEL AND pH.

Do not begin the installation over concrete substrates that do not meet the following MVER moisture vapour emission rate requirements.

- **Moisture:** Conduct Relative Humidity testing and results must be below 85% (ASTM F-2170) or Anhydrous Calcium Chloride test must be less than 5 lbs. per 1,000 sf (2.27 kg per 92.9 m²) per 24 hours, when using the ASTM F-1869 test.
- **Alkalinity:** pH testing should be performed with results ranging between 5.0 and 9.0 (ASTM F-710). Take corrective measures if the results exceed these limits.

Shaw recognizes the relative humidity (RH) test as the qualifying standard. This product is for interior installation only.

2. PREPARE THE FLOOR

The substrate must be structurally sound, dry, solid and stable.

- 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.
- If inactive multi-purpose adhesive exists, remove ridges by scraping or sanding to expose the bare concrete leaving only a well-bonded light residue. Sweep and vacuum any remaining debris prior to the application of Shaw 5100. If the multi-purpose is active, remove ridges to expose the bare concrete leaving only a well-bonded light residue and eliminate the remaining tack of the adhesive with a product such as Shaw 6200.
- When installing over existing pressure sensitive adhesive, evaluate the tack level of the adhesive. If the tack is low, reapply Shaw 5100.
- When installing over existing VCT adhesive (non-cutback), remove ridges to expose the bare concrete leaving only a well-bonded light residue prior to the application of Shaw 5100.

Suitable substrates are:

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and properly prepared cement terrazzo

- Cement-based self-leveling underlayments and patching compounds
- Embossing levellers applied over existing, properly prepared and fully bonded ceramic tile, and sheet vinyl
- A single layer of properly prepared, fully bonded vinyl composition tile (VCT)
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength

3. DETERMINE DRY TIME.

Flash is the waiting time required before installing flooring. Working time is the window of time the adhesive will accept the tile. Flash times and working times may vary based on temperature, humidity, substrate porosity, application method and jobsite conditions.

Porous Substrates		
Flooring Type	Flash	Working Time
EcoWorx/EcoLogix Tile	0 (permanent bond); 30 minutes or until dry (pressure-sensitive)	15 minutes (permanent bond) 8 hours (pressure sensitive)
Non-porous Substrates		
Flooring type	Flash	Working Time
EcoWorx/EcoLogix Tile	30 minutes or until dry (pressure-sensitive)	8 hours (pressure sensitive) Can be left overnight

4. DETERMINE COVERAGE AND SELECT APPLICATION METHOD.

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

Application and Coverage		
Flooring Type	Application Method	Coverage*
EcoWorx Carpet Tile EcoLogix Carpet Tile (Attached Cushion)	1/16" x 1/32" x 5/64" U-Notch (1.6 x .8 x 2 mm)	28-33 sy/U.S. gal. (250-300 sf/gal)
	3/8" foam or medium nap roller	35-40 sy/U.S. gal. (300-350 sf/gal)
	spray-applied	Ensure that spray patterns overlap by 1/3 (400 sf/gal)

5. APPLY ADHESIVE.

Spread adhesive evenly over the subfloor, keeping the trowel at a 45 angle to the subfloor. For releasable applications, wait until the applied adhesive has become clear and tacky with no transfer. Tack time will vary due to temperature, humidity and floor porosity. For permanent-set applications, install the product into semi-wet adhesive. Apply pressure to the entire surface of the tile to ensure adhesion.

6. ROLL THE FLOOR.

Roll the width and length of the floor with a 75- to 100-pound roller.

7. PROTECT FLOOR.

Protect floor with plywood if heavy objects are moved on top of surface within 24 hours.

8. CLEAN UP.

Clean tools with water while the adhesive is still fresh/wet. Clean with mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.

LIMITATIONS

- Do not install over any substrates containing asbestos.
- Install in interior installations only.
- Do not apply over any active cutback adhesive.
- Do not install over concrete substrates where the moisture vapour emission rate (MVER) exceeds 5 lbs/1,000 sf (2.27 kg/92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when relative humidity of concrete slabs exceeds 85% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).

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