

# Shaw 3800 Specification

## UNIVERSAL INDOOR OUTDOOR CARPET ADHESIVE

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

Shaw 3800 is a solvent-free, high-solid, resin rubber-based, universal indoor-outdoor carpet adhesive. For interior applications, Shaw 3800 is a high-solids, fast-grabbing, ultra-premium adhesive that will save installation time when installing Shaw’s broadloom and indoor-outdoor products. Shaw 3800 is also a solution for high moisture applications where hydrostatic pressure is not present. For exterior applications of entry products, please be aware that 3800 is not a pressure sensitive adhesive. When replacing modular tiles, reduction and reapplication of Shaw 3800 will be necessary.

## FEATURES AND BENEFITS

- For interior and exterior use (non-flammable & non-toxic)
- High solids with fast grabbing action
- Higher moisture tolerance than conventional adhesives
- CRI Green Label Plus certified and SCAQMD compliant (solvent free)
- Mildew resistant and non-staining with antimicrobial protection per ASTM G-21

Weight	Pallet Qty.	Pallet Weight
45 lbs (4 gal)	48	2185 lbs

Laboratory Tests	Results
Polymer type	SBR emulsion solution
Percent solids	74% to 78%
VOCs Rule #1168 of California’s SCAQMD	<17 g/L
Trowelability	Light, easy
Density	10 lbs (4.53 kg) (+/- 0.4); 1.24 g/mL (+/- 0.05)
Consistency	Buttery
Color	Off-white
Tracer	Red rods
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 Department of Public Health Section 01350
- CRI Green Label Plus Certified #60125

**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 installation instructions and/or the CRI installation standard.

**1. CHECK THE MOISTURE LEVEL AND pH**

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

- Moisture: Conduct Relative Humidity (RH) testing and results must be below 90% (ASTM F-2170) or Anhydrous Calcium Chloride test must be less than 8 lbs. per 1,000 sf (3.63 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the ASTM F-1869 test. Shaw recognizes the RH test as the qualifying standard.
- 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.

**2. PREPARE THE FLOOR**

All substrates must be structurally sound, dry, solid and stable. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. Substrates must be level & smooth. Level any high spots, and fill all cracks, holes and minor depressions with a suitable underlayment or floor patch. Irregularities can “telegraph” through the new floorcovering as a result of inadequate surface preparation. Use an exterior-grade patch for exterior installation.

**Exterior**

Site Conditions: Temperatures should be between 50°F and 85°F during installation phase, and should remain at these temperatures for 48 hours. Installations should not receive drenching rain or moisture from other sources for 48 hours after application. Adhesive becomes more water resistant as it cures. Areas to be covered should have good drainage. Do not use in areas that will be continually submerged in water.

**Interior**

For proper results, the room, floor covering, and adhesive should be between 65°F and 85°F for 24 hours before, during, and permanently after the installation. Porous surfaces such as gypsum should be sealed by applying a single coat of primer sealer with a short nap paint roller and allow to dry before making final application with the recommended trowel.

Suitable Substrates are:

Exterior

- Concrete, cured asphalt (minimum 12 months old) and other clean paving surfaces
- Exterior or marine grade plywood (Group 1, CC type) that is firm and not deteriorated, and pressure-treated lumber that has cured for a minimum of thirty (30) days.
- Clean asphalt roofing.
- Aluminum and fiberglass that is clean and has been roughed up or sanded to remove oxidation and give a better mechanical bonding surface
- Substrates that have been stained, painted, sealed or otherwise coated must be tested to assure compatibility with the adhesive

Interior

- Concrete - above and on grade (remove sealers and curing compounds from the surface).
- Wood Association approved plywood underlayments.
- VCT or ground terrazzo (remove waxes and polishes from the surface)
- Vinyl floor covering that is over a year old and adhered with a full spread application of adhesive (remove waxes and polishes from the surface)
- Gypsum underlayments that are sealed with a primer sealer before installation

For substrates not covered, contact Shaw Technical Support at 800.471.7429 for recommendations.

**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.

Interior Application (maintained at 70°)

Shaw 3800 Interior Application (maintained at 70°)		
Flooring Type	Flash	Working Time
Porous Floors	5 to 15 minutes (Tacky to Touch)	15-30 minutes
Non-Porous Floors	10 to 30 minutes (Tacky to Touch)	30-45 minutes

Exterior Application

Both soft set flash and working times will be affected by varying temperatures. An increase in temperatures above 70° will increase both flash and working time.

For every 10° increase in temperature, reduce these times by 5-10 minutes.

For every 10° decrease in temperature, increase these times by 5-10 minutes.

**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	Typical Trowel	Coverage
All broadloom carpet applications	1/8" x 1/8" x 1/8" U Notch (3 x 3 x 3 mm)	8-10 sy/U.S. gal (2.00-2.30 m <sup>2</sup> per L)
Doublestick Applications Pad to subfloor	3/32" x 3/32" x 3/32" V Notch (2.4 x 2.4 x 2.4 mm)	10-12 sy / U.S. gal (9.14 – 11 m per 3.79 L)
Carpet to pad	1/8" x 1/8" x 1/16" U Notch (3.2 x 3.2 x 1.6 mm)	4 – 8 sy / U.S. gal (4.57-6.40 m per 3.79 L)
Modular tile installations	1/16 x 1/16 x 1/16 U or Square Notch	12–15 sy/U.S. gal (10.03–12.54 m <sup>2</sup> per L)

**5. APPLY ADHESIVE**

Read all installation instructions thoroughly before installation. Select the appropriately notched trowel. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor. Promptly clean any adhesive smudges from the flooring material’s surface with water while the adhesive is still fresh/wet.

**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,
- When installing patterned carpet, be aware that time is very limited for pattern adjustment.
- Do not apply over any adhesive residues including cutback adhesive,
- Do not use for vinyl or any PVC-backed products.
- Do not install shown when the moisture vapor emission rate (MVER) exceeds 8 lbs./1,000 sf (3.63 kg/92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when relative humidity of concrete slabs exceeds 90% (ASTM F2170).

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