

## 3800 SPECIFICATION

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### DESCRIPTION

Shaw 3800 is a solvent-free, high-solid, resin rubber-based, indoor-outdoor 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.

### APPROVED SUBSTRATES

#### 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 (generic) Technical Support at 1-800-471-7429 for recommendations.

### SUBSTRATE TESTING

- RH 99% (ASTM F-2170), provided the site is absent of hydrostatic pressure.
- CaCl / MVER 12 lbs (ASTM F-1869)
- pH 7-12

RH testing is the qualifying standard.

For older slabs or slabs with a prior history of moisture related issues, Shaw Technical Support recommends moisture mitigation in the form of a 2-part epoxy system, such as MoistureTEK.

For newer slabs with an intact moisture retarder, initial moisture levels should recede over time. For recorded levels above 95%, higher moisture resistant adhesives are recommended.

### SUBSTRATE PREPARATION

- Substrate must be structurally sound, clean, level and dry.
- Substrate must be free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, adhesives, loosely bonded toppings, loose particles and any other substance or condition that may prevent or reduce adhesion.
- Do not use over substrates containing asbestos or active cutback.
- Do not use for vinyl or any PVC-backed products.

- Fill depressions or cracks with a cementitious patching / leveling compound that meet or exceed Shaw Industries maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- For cracks or saw cuts deeper than 1", Shaw QuikFil is recommended.
- Installation site must be acclimated with HVAC in operation or the temperature must be controlled between 65-95° F (18-35° C) and the ambient relative humidity controlled between 30-65% before, during and permanently after the installation.
- Do not use over chemically abated substrates.
- 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.

## APPLICATION INSTRUCTIONS AND SPREAD RATES

Read and follow the product specific installation guidelines for layout, design and any special instructions for installation.

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### 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.

## DETERMINE COVERAGE AND SELECT APPLICATION METHOD

- 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.
- Roll The Floor - width and length of the floor with a 75- to 100-pound roller.
- Protect The Floor - Place plywood over the carpet when heavy objects are moved.

Flooring Type	Trowel Size	Coverage
Commercial Broadloom	1/8" x 1/8" x 1/8" U-notch	8-10 yd <sup>2</sup> /gallon
Double Stick (pad to floor)	3/32" x 3/32" x 3/32" V-notch	10-12 yd <sup>2</sup> /gallon
Double Stick (carpet to pad)	1/8" x 1/8" x 1/16" U-notch	4-8 yd <sup>2</sup> /gallon

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.

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

**Note:** Coverage rate, flash time and working time may vary based on temperature, humidity, substrate porosity, jobsite conditions and application practices. Coverages are estimates only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices. Trowel dimensions are width/depth/space.

Areas with lower than normal relative humidity will result in a reduced working time.

## PRODUCT CHARACTERISTICS

Weight	45 lbs / 4 gallon pail
Pallet Quantity	48
Pallet Weight	2185 lbs
Polymer Type	SBR emulsion solution
Percent Solids	74-78%
VOC's (Rule #1168 of California SCAQMD)	<17 g/L
Color / Tracer	Off White / Red Rods
Shelf Life	1 year from manufacturing date, in an unopened container
Storage Conditions	65oF to 95oF (18oC to 35oC). Protect from freezing
Flash point (ASTM D56)	>212oF / 100oC
Cleaning Instructions	Use warm soapy water while adhesive is still wet. For dried adhesive removal contact Shaw Technical Support at 1-800-471-7429
Traffic	Light Traffic 24 hours Heavy Traffic 72 hours

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

- California South Coast Air Quality Management District Rule 1168
- California Department of Public Health Section 01350
- CRI Green Label Plus Certified #60125

## LEED IEQ Credit Information (2009 and V4)

Credit Requirement	Status	Comment
Meets General Emissions Evaluation Criteria	Complies	CRI Green Label Plus (GLP) #60125
VOC's (Rule #1168 of California SCAQMD amended October 6, 2017)	Complies	VOC Content < 50 g/L

## WARRANTY

This product is covered by a 1 year limited warranty. For more detailed information on this limited warranty, please see contact information at the bottom of this page.