

**SHAW 4151 UNIVERSAL PERFORMANCE ADHESIVE**

**DESCRIPTION**

Shaw 4151 is an enhanced formulated universal performance adhesive designed for multiple backing systems, including resilient (sheet/lvt/lvp), carpet tile and non-patterned EPBL.

**APPROVED SUBSTRATES**

- For interior use only.
- Wood Association approved wood underlayment and subflooring. See [Resilient Wood Substrate Information](#)
- Sound and properly prepared concrete (on, above or below grade), metal, wood fiberglass and terrazzo.
- Existing resilient products should be over 1 year old, secure and fully adhered with a full spread of adhesive. Remove all waxes and polishes from the existing floor before installation.

**SUBSTRATE TESTING**

- RH - 99% (ASTM F-2170), provided the site is absent of hydrostatic pressure.
- CaCl / MVER - 12 lbs (ASTM F-1869)
- pH - 12 (ASTM F-710)
- For on-grade / below grade installations, CaCl, RH and pH testing are required.
- For above grade installations, RH testing is required.

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.

**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 adhesive.
- 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.
- Installation site must be acclimated with HVAC in operation or the temperature must be controlled between 65-95 O F (18- 35 O C) and the ambient relative humidity controlled between 30-65% before, during and permanently after the installation.
- Do not use over chemically abated substrates.

**APPLICATION INSTRUCTIONS AND SPREAD RATES**

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

- Spread adhesive using the recommended trowel.
- Spread adhesive evenly over substrate, keeping the trowel at a 45° angle to the substrate.

Flooring Type	Trowel Size	Coverage
Carpet Tile	1/16" x 1/32" x 5/64" U- notch	28-33 yds <sup>2</sup> / gallon (250-300 ft <sup>2</sup> /gal)
	3/8" nap roller	35-40 yds <sup>2</sup> / gallon (300-350 ft <sup>2</sup> /gal)
LVT/LVP/ReWorx	1/16" x 1/32" x 1/32" U- notch	19-22 yds <sup>2</sup> / gallon (175-200 ft <sup>2</sup> /gal)

Flooring Type	Trowel Size	Coverage
Vinyl Sheet	1/16" x 1/32" x 1/32" U notch	19-22 yds <sup>2</sup> / gallon (175-200 ft <sup>2</sup> /gal)
EPBL non-patterned carpet	3/32" x 3/32" x 3/32" U-notch	8-9 yds <sup>2</sup> / gallon
CushionWorx	3/8" nap roller	35-40 yds <sup>2</sup> / gallon (300-350 ft <sup>2</sup> /gal)
DuraWorx	<b>Carpet Tile</b> to Cushion 3/8" nap roller Cushion to Subfloor 1/16" x 1/16" x 1/16" U or Square notch	35-40 yds <sup>2</sup> / gallon (300-350 ft <sup>2</sup> /gal) 18-20 yds <sup>2</sup> / gallon (160-180 ft <sup>2</sup> /gal)

After installation of floor covering, roll floor covering with a 75 – 100 lb roller.

**NOTE:** For vinyl, back roll the adhesive with a short nap roller to reduce telegraphing of adhesive ridges.

Flash Time	The waiting time required before installing floor covering. See product specific installation guidelines.
Working Time	The window of time for the adhesive to accept floor covering. See product specific installation guidelines.

**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 depth/width/space. **Areas with lower than normal relative humidity will result in a reduced working time.**

**PRODUCT CHARACTERISTICS**

Weight	34 lbs. / 4 gallon pail
Pallet Quantity	36
Pallet Weight	1480 lbs
Polymer Type	Acrylic
Percent Solids	40-60%
VOC's (Rule #1168 of California SCAQMD)	<0.5g/L
Color / Tracer	Off-White / Will fluoresce blue
Shelf Life	2 years from manufacturing date, in an unopened container.
Storage Conditions	65° F to 95° F (18° C to 35° C) Protect from freezing.
Flash point (ASTM D56)	>212° F / 100° C

Cleaning Instructions	Use warm soapy water while adhesive is still wet. For dried adhesive removal contact Shaw Technical Support 1.800.471.7429.
Traffic	Light Traffic – 12 hours Heavy / Rolling Load Traffic – 24 hours
Heat Welding	Minimum 12 hours after installation.

**ENVIRONMENTAL**

- California South Coast Air Quality Management District Rule 1168
- California Department of Public Health Section 01350
- Greenguard / Greenguard Gold - #216283-410/216283-420

**LEED IEQ CREDIT INFORMATION (2009 AND V4)**

Credit Requirement	Status	Comment
Meets General Emissions Evaluation Criteria	Complies	Greenguard / Greenguard Gold 216283-410/216283-420
VOC's (Rule #1168 of California SCAQMD amended October 6, 2017)	Complies	VOC Content < 50 g/L

**WARRANTY**

This product is covered by a 10 year limited warranty and under bed warranty when used with specific products. For more detailed information on this limited warranty, please see contact information at the bottom of this page.