

Shaw 4151

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.
- Gypsum and lightweight concrete (primed with Shaw 9050).
- 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.
- For cracks and saw cuts deeper than 1", Shaw QuickFil 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.

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.
- After each flooring type installation, roll with a 75-100 lb roller.

For non-porous substrates:

| Flooring Type | Trowel Size | Coverage |
|---------------|--|---|
| LVT/LVP | 1/16" x 1/32" x 1/32" U notch | 19-22 yds ² /gallon (175-225 ft ² /gal) |
| Vinyl Sheet | 1/16" x 1/32" x 1/32" U notch 3/8" Nap Roller | 19-22 yds ² /gallon (175-225 ft ² /gal) 35-40 yd ² /gallon (300-350 ft ² /gal) |

For porous substrates:

| Flooring Type | Trowel Size | Coverage |
|---------------|---|--|
| LVT/LVP | 1/16" x 1/16" x 1/16" Sq notch | 15-19 yd ² /gallon (140-170 ft ² /gal) |
| Vinyl Sheet | 1/16" x 1/16" x 1/16" Sq notch 3/8" Nap Roller | 15-19 yd ² /gallon (140-170 ft ² /gal) 35-40 yd ² /gallon (300-350 ft ² /gal) |

Note: For LVT/LVP/Sheet Vinyl: install into semi-wet adhesive.

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

For Semi-Wet set installations:

| | |
|--------------|----------------|
| Flash Time | 10-20 minutes |
| Working Time | 20-30 minutes* |
| Cure Time | 24 Hours |

| Flooring Type | Trowel Size | Coverage |
|---------------|--|--|
| Carpet Tile | 1/16" x 1/32" x 5/64" U notch 3/8" Nap Roller | 28-33 yd ² /gallon (250-300 ft ² /gal) 35-40 yd ² /gallon (300-350 ft ² /gal) |
| Reworx | 1/16" x 1/32" x 1/32" U-notch | 19-22 yd ² /gallon (175-225 ft ² /gal) |

| | | |
|-------------|---|--|
| CushionWorx | 3/8" nap roller | 35-40 yds ² /gallon (300-350 ft ² /gal) |
| DuraWorx | Carpet Tile to Cushion 3/8" nap roller Cushion to Subfloor 1/16" x 1/16" x 1/16" U or Square notch | 35-40 yds ² /gallon (300-350 ft ² /gal) 18-20 yds ² /gallon (160-180 ft ² /gal) |

Note: Install as a pressure sensitive adhesive.

| Flooring Type | Trowel Size | Coverage |
|---------------------------|-------------------------------|------------------------------|
| EPBL non-patterned carpet | 3/32" x 3/32" x 3/32" U-notch | 8-9 yds ² /gallon |

Note: Carpet must be laid into wet adhesive.

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 coverage may vary according to substrate conditions, type of trowel used and setting practices. Trowel dimensions are width/depth/space.

*Areas with low relative humidity will result in reduced working time.

PRODUCT CHARACTERISTICS:

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

| | |
|---|---|
| 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) | <0.5 g/L |
| Color / Tracer | Off-white / with fluorescent 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 at 1-800-471- 7429 |
| Traffic | Light Traffic – 12 hours Heavy 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.