

Technical Data Sheet – SIF 331

Premium Grade Flooring Adhesive

DESCRIPTION

SIF 331 is a premium-performance, high-solids flooring adhesive designed for commercial applications such as airports, schools, hospitals and convention centers. It is specifically designed for high performance carpet installations including woven products and provides ample working time for patterned carpet adjustments.

Features and Benefits

- Extra working time for the alignment of patterned carpets
- High solids for excellent bond and shear strength
- Low VOC content

Industry Standards and Approvals

LEED v4 Points Contribution

LEED Points

Health Product Declaration (HPD)*.....Up to 2 points

*Using this product may help contribute to LEED certification of projects in the category shown above.

Points are awarded based on contributions of all project materials.

Additional Green Certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red

List on the LBC Website.

Where to use:

- For installation of broadloom carpet with urethane unitary, needle-punched, woven, closed cellular urethane foam, Enhancer, jute, polypropylene, and latex-unitary
- backings.
- Interior commercial
- Interior institutional

Limitations:

- Do not install over any substrates containing asbestos.
- For interior installations only
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install when the MVER exceeds 8 lbs. per 1,000 sq. ft. (3,63 kg per 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% per (ASTM F2170).
- Do not install if the pH of the concrete slab exceeds 10
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).

Suitable Substrates:

- 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 levelers 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 requirements for compressive strength according to ASTM F2419
- *Consult Summit International Flooring's Technical Services Department for installation recommendations regarding substrates and conditions not listed.*

Surface Preparation:

- All substrates 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, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth.

Mixing:

Note: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more information.

Ready to use; no mixing is necessary.

Product Application

Read all installation instructions thoroughly before installation. Install flooring in strict accordance with flooring manufacturer's written instructions.

1. Read all installation instructions thoroughly before installation.
2. Select the appropriate notched trowel (see “Approximate Product Coverage” section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. For porous substrates, install the flooring material into the adhesive while it is still wet. For porous-backed material over nonporous substrates, allow 20 minutes of drying time for the adhesive to build tack before placing flooring material.
5. Install flooring.
6. Periodically confirm adhesive transfer to the backing by lifting the flooring material.
7. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

Cleanup:

- Promptly clean any adhesive smudges from the flooring material’s surface with water while the adhesive is still fresh/wet.
- 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.

Product Performance Properties

Laboratory Tests	Results
Polymer Type	Styrene butadiene latex
Percent solids	70% to 75%
VOCs (Rule #1168 of California’s SCAQMD)	<40 g per L
VOCs (Section 01350 of California’s CDPH)	Passed
pH	9 to 10
Color	Light Beige
Shelf life	1 year when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)

Flash point (ASTM D56) > 212°F (100°C)

Protect from traffic 24 hours for light traffic, 72 hours for heavy traffic

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.

Application Table

Application Characteristics over Porous and Non-Porous Substrates

Smooth-backed and rough-backed carpet

Flash Time† 0 minutes

Working Time†† 15-35 minutes

† Flash time is the waiting time required before installing flooring.

†† Working time is the window of time for the adhesive to accept flooring.

Note: Flash time and working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

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