



Nexus[®] Cushion | Nexus FC Modular Adhesive

PRESSURE SENSITIVE, MULTI-FLOORING ADHESIVE

DESCRIPTION

Nexus[®] Cushion | Nexus FC Modular Adhesive is an aggressive, pressure sensitive adhesive designed for the installation of modular cushion-backed flooring. Nexus Cushion Modular | FC Adhesive is non-flammable and is both water and alkali resistant when dry. It has low odor and low VOCs, which makes it ideal for use in schools, health care facilities, public buildings, and anywhere odor is a concern.

FEATURES & BENEFITS

- Low VOC Content
- Environmentally friendly – CRI Green Label Plus GLP50250
- SCAQMD Rule 1168 compliant

WHERE TO USE

- Approved for use with modular cushion-backed flooring.
- Interior residential (rental apartments, condominiums, and homes)
- Interior commercial (office buildings, hotel rooms and hallways, and restaurant dining areas)
- Interior heavy commercial (hotel lobbies, convention centers, airports, and department stores)
- Interior institutional (hospitals, schools, universities, libraries, and government buildings)

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior installations only
- Install flooring only in areas that are recommended by the flooring manufacturer.
- Do not install into wet adhesive over non-porous substrates.
- Do not apply directly over any adhesive residues, including cutback adhesive.
- Do not install in areas with known hydrostatic moisture, osmotic blistering, or alkali silica reaction conditions.
- Use only when the substrate temperature is between 65°F and 85°F (18°C and 29°C) and the ambient relative humidity (RH) is less than 65%.
- Do not install unless the surface temperature of the substrate is 5°F (2.3°C) above the dew point.
- Do not install when the relative humidity (RH) of the concrete slab exceeds 95% per (ASTM F2170).
- Do not install when the Moisture Vapor Emission Rate (MVER) is greater than 10 lbs. (4.54 kg) per 1,000 sq. ft. (92.9 m²) using the anhydrous calcium chloride test (per ASTM F1869).
- Do not install when the pH of the substrate is greater than 11.0.

Note: When installing modular, cushion-backed flooring and the RH is between 95% and 97% or the pH is greater than 11.0, two coats of COMMERCIALON PREMIUM SEALER is required.



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SUITABLE SUBSTRATES

- Fully cured concrete at least 28 days old and installed according to ASTM F710 (see “Limitations” section)
- Exterior-grade plywood, Group 1, CC type and other approved wood substrates (per the flooring manufacturer’s recommendations)
- Properly prepared steel substrates.
- Properly prepared, and fully bonded VCT or vinyl floor covering (single layer) that is over a year old and adhered with a full spread application of adhesive
- Embossing levelers applied over existing, properly prepared, and fully bonded ceramic, or porcelain tile
- Properly prepared cement terrazzo
- Exterior rated cement-based self-leveling underlayments and patching compounds (per manufacturer recommendations)
- Properly prepared, primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Properly prepared and installed epoxy moisture mitigation systems
- Radiant-heat systems that have been properly installed that are maintained at a maximum of 85°F (29.4°C) surface temperature.

Consult Engineered Floors Commercial Division Technical Services Department for installation recommendations regarding substrates and conditions not listed. 800-241-4586

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 affect the overall performance of the product.
- Substrates must be flat to 3/16” in a 10-foot span (4.8 mm in a 3.0 m span). Fill all holes or cracks using a high moisture rated cement-based self-leveling underlayment or patching compound.

MIXING

Ready to use. No mixing necessary.

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



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PRODUCT APPLICATION

Read to the flooring manufacturer’s guidelines for acclimation requirements and complete installation instructions. Read all installation instructions thoroughly before installation. Install flooring in strict accordance with the flooring manufacturer’s written instructions.

1. Select the appropriately notched trowel (see the “Approximate Coverage” chart) and spread the adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
2. Only apply as much adhesive as can be installed within the working time. For working time and flash time, see the “Application Properties” chart below. Allow adhesive to completely dry with no transfer to finger when touched. Protect the open adhesive from dust and debris, which will inhibit proper bond and decrease tack.
3. Once the flooring is installed, immediately roll 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.

PROTECTION

- Protect the finished installation from light traffic for at least 6 hours and from heavy traffic for at least 24 hours.
- Building owners should become aware of the flooring manufacturer’s guidelines for climate- control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation.

PRODUCT PERFORMANCE PROPERTIES

Laboratory Tests	Results
Percent Solids	55 to 65%
VOCs (Rule #1168 of California’s SCAQMD)	<50 g per L
VOC Emissions (California DPH Section 01350 v1.2-2017)	<0.5 mg per m3
pH	8 to 10
Density	7.5 to 9.2 lbs. per US gal. (0.9 to 1.1 g per mL)
Flash point (ASTM D56)	> 212°F (100°C)

This product complies with SCAQMD Rule 1168 and California DPH Section 01350 v1.2-2017 for the school classroom and private office parameters when modeled as Flooring. Measured Concentration of Total Volatile Organic Compounds (TVOC): 0.5 mg/m3 or less. Average Adhesive Application in Mass per Surface Area: 6.84 g of adhesive per 0.0361 m².



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SHELF LIFE and PRODUCT CHARACTERISTICS

Shelf Life	24 months when stored in original, unopened packaging at 73°F (23°C)
Storage Conditions	Store at 65°F to 90°F (18°C to 32°C)
Polymer Type	Acrylic
Consistency	Paste
Color	Off White

PROTECT FROM FREEZING

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 48 hours before work begins.

APPLICATION PROPERTIES AT 73°F (23°C) AND 50% RELATIVE HUMIDITY

INSTALLATION TYPE	FLASH TIME†	WORKING TIME ††
Pressure Sensitive Installations	30 to 60 minutes	Up to 4 hours

† Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

†† Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

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

PACKAGING

SIZE
4 Gallon (15.1 L)

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APPROXIMATE COVERAGE *

FLOORING TYPE	TYPICAL TROWEL	COVERAGE
Cushion-Backed Modular Flooring	1/16" x 1/32" x 1/32" (0.8 x 1.6 x 0.8 mm) U-notch trowel	225 sq. ft. per 1 U.S. gal. (5.5 m ² per L)

** Trowel dimensions are depth/width/space. Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

RELATED DOCUMENTS

Refer to the SDS for specific data related to health and safety as well as product handling.