

## **Purfix UltraTech Adhesive** Professional Resilient Flooring Adhesive

### **DESCRIPTION**

Purfix UltraTech Adhesive is a superior-performance adhesive that is specifically formulated for installation of homogeneous and heterogeneous solid vinyl flooring. Purfix UltraTech Adhesive performs well under rolling loads, resists indentation, and develops a strong, durable, moisture-resistant, and alkali-resistant bond. Its low volatile organic content makes it ideal for use in occupied buildings such as hospitals and medical centers.

### **FEATURES AND BENEFITS**

- Resistant to high moisture and alkalinity
- Ease of troweling for quick installation
- Resistant to heavy rolling loads
- Excellent indentation and shrinkage resistance
- Plasticizer migration resistant for use with all solid vinyl flooring
- Low VOC and odor

### **WHERE TO USE**

- For the installation of homogeneous and heterogeneous sheet vinyl (solid PVC sheet flooring), luxury vinyl tile (solid PVC tile) and vinyl plank, rubber tile, vinyl composition tile (VCT) and biopolyurethane-based flooring on porous substrates only
- Interior residential (rental apartments, condominiums, and homes)
- Interior commercial (office buildings, hotel rooms/hallways and restaurant dining areas)
- Interior institutional (hospitals, schools, universities, libraries, and government buildings)

### **LIMITATIONS**

- For interior installations only.
- Do not install over any substrates containing asbestos.
- Do not apply over any adhesive residues including cutback adhesive.
- Do not use to install nonporous floor coverings over nonporous surfaces.
- Do not use to install floor coverings with known dimensional stability issues.
- Do not install in areas with known hydrostatic moisture, osmotic blistering, or alkali silica reaction conditions.
- Do not use when the substrate temperature is below 65°F (18°C) or above 80°F (26°C), or when the ambient relative humidity is less than 30% or greater than 80%.
- Do not install when the moisture vapor emission rate (MVER) exceeds 12 lbs. per 1,000 sq. ft. (6.8 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 95% (ASTM F2170).
- Do not install if the pH of the substrate exceeds 12.0. F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 95% (ASTM F2170).
- Do not install if the pH of the substrate exceeds 12.0.
- Do not install unless the surface temperature of the substrate is at least 10°F (5°C) above the dew point.

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### SUITABLE SUBSTRATES

- Fully cured concrete at least 28 days old and installed according to ASTM F-710 (see "Limitations" section)
- Exterior-grade plywood, Group 1, CC type and other approved wood substrates (per the flooring manufacturer's recommendations)
- Embossing levelers applied over existing, 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 and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F 2419
- Radiant heat systems that have been properly installed

*Consult Engineered Floors' Customer Relations 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. If the surface contains these substances, they must be mechanically removed. Do not use chemical means.
- All surfaces must be level to 3/16" in a 10-foot span (4.8 mm in a 3.0-m span), even, flat and smooth. 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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**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 appropriate notched trowel (see "Approximate Coverage" section).
2. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle.
3. Determine the flash and working time (see "Application Properties" section). Only apply as much adhesive as can be installed within the working time. Protect the open adhesive from dust and debris, which will inhibit proper bond and decrease tack.
4. Periodically confirm the adhesive transfer to the backing by lifting the flooring material.
5. 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 24 hours and from heavy traffic for at least 72 hours.
- Building owners should become aware of the flooring manufacturer's guidelines for climatecontrol 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	40 to 60%
VOC's (Rule #1168 of California's SCAQMD)	<50 g per L
pH	8 to 10
Density <span style="float: right;">02/24/2025</span>	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)

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**SHELF LIFE and PRODUCT CHARACTERISTICS**

Laboratory Tests	Results
Shelf Life	12 months when stored in original, unopened packaging at 73°F (23°C)
Storage Conditions	Store at 65°F to 80°F (18°C to 26°C)
Polymer Type	Hybrid Acrylic
Consistency	Paste
Color	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**

Flash Time †	10 to 15 minutes
Working Time ††	15 to 30 minutes

† 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, product application, and jobsite conditions.

**PACKAGING**

Size
1 Gallon (3.79 L)
4 Gallon (15.1 L)

**APPROXIMATE COVERAGE**

Recommended Trowel	Coverage
1/32" x 1/16" x 1/32" (0.8 x 1.6 x 0.8 mm) U-notch trowel	185 to 250 sq. ft. per 1 U.S. gal. (4.5 to 6.1 m <sup>2</sup> 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.