

# Purfix

## UltraTech Adhesive

## INSTALLATION GUIDE

**Purfix UltraTech Adhesive is a superior-performance adhesive that is specifically formulated for installation of Windmoeller bio-based polyurethane flooring and other approved flooring products. UltraTech 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 both residential and commercial applications. It may be used over properly prepared concrete or APA-grade plywood as well as over floors using radiant heat.**



Purfix UltraTech Adhesive should only be used for interior installations. Purfix UltraTech can be used over on-grade, above-grade and below-grade concrete. When using Purfix UltraTech on concrete slabs that are on and below-grade, there must be a fully intact vapor retarder compliant with ASTM E 1745 Standard Specification for Water Vapor Retarder Used in Contact with Soil or Granular Fill Under Concrete Slabs placed in direct contact with the bottom of the concrete slab. The vapor retarder should be installed in accordance with ASTM E1643 Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs along with the vapor retarder manufacturer's installation instructions and project design specifications.

Moisture tests must be performed on all concrete substrates regardless of grade level or age of slab. If the test results exceed the limitations noted, the installation should not proceed until the problem has been corrected. Concrete moisture testing must be performed in accordance with the latest version of ASTM F2170 with levels not to exceed 95% RH or 12 lbs per 1,000 ft<sup>2</sup> (5.44 kg per 92.9 m<sup>2</sup>) in 24hrs when tested in accordance with the latest version of ASTM F1869. pH level should be between 7 and 12 when tested in accordance with the latest version of ASTM 3441. See Windmoeller Product Installation Instructions for recommended testing locations. Also, testing the concrete with a Tramex Moisture Encounter meter in accordance with the latest version of ASTM F2659 is recommended to determine potential high-risk locations for moisture testing.

Do not use Purfix UltraTech Adhesive if visible signs of moisture are present on the substrate. Do not use Purfix UltraTech in areas that have had previous moisture or alkali related issues. Do not use Purfix UltraTech on concrete in areas that currently have hydrostatic pressure, osmotic pressure or alkali-silica reaction conditions.

Concrete with these issues/conditions must be corrected by installing a moisture mitigation system compliant with ASTM F3010. Windmoeller recommends capping all moisture mitigation systems with a quality cementitious product prior to the installation of flooring and adhesive products. Do not apply Purfix UltraTech directly to a moisture mitigation system.

Purfix UltraTech Adhesive can be used over APA rated underlayment grade plywood. Refer to ASTM F1482 Standard Practice for Installation and Preparation of Panel Underlayments to receive Resilient Flooring.

The installation site must be fully enclosed and acclimated with a permanent HVAC system in operation. The interior ambient air temperature and relative humidity must be maintained between 65 – 80 °F (18 - 26° C) and 35 – 65% RH. The substrate temperature should be at least 10°F higher than the dew point and within 5°F of the ambient air temperature. Testing the substrate with a Tramex moisture encounter meter (refer to ASTM F2659) is recommended at the time of installation due to possible issues related to topical moisture from dew point conditions. Substrate surface readings should not exceed 4.5% with a Tramex Moisture Encounter meter. If reading is over 4.5% contact Windmoeller Technical Support prior to beginning the installation. If these conditions are not properly addressed the open time, working time, bond strength and setting of the adhesive may be affected.

Concrete substrates must be prepared per ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring and be clean, smooth, structurally sound, dry and free of dust, dirt, wax, paint, grease, sealers, curing compounds, existing adhesives residues or any other contaminants that might interfere with the adhesive bond. Cracks, uneven surfaces and other irregularities must be filled with an approved cement-based patching compound.

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A moisture and alkali resistant patching compound may be needed, depending upon the application. Consult with the manufacturer of these products for recommendations.

Always perform a bond test prior to installation. [See Windmoeller's Product Installation Instructions - Adhesive Bond Testing](#). Bond testing prior to the installation will help identify the appropriate application rate, open and working time, and any potential bonding problems to the substrate or flooring. Also see ASTM 3311 Standard Practice for Mat Bond Evaluation of Performance and Compatibility for Resilient Flooring System Components Prior to Installation.

Porosity/absorbency should be determined by following the ASTM F3191 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring.

Spread the adhesive uniformly with recommended trowel as noted below. Working time and open time may vary with temperature, humidity, jobsite conditions, and substrate porosity/absorbency. Begin installing flooring into adhesive as it becomes dry to the touch, with little transfer to finger when lightly touched. Transfer to the back of the floorcovering is critical to a successful installation. During installation, periodically lift the corner of the flooring to ensure proper adhesive transfer. Once spread please install flooring within 30 minutes. If more adhesive is spread than can be covered with flooring in the recommended time, it should be mechanically scraped to a clean substrate and re-applied.

Always roll flooring in both directions with a 100-150 lb 3-section roller immediately after flooring is placed, ensuring full contact with adhesive. The adhesive trowel ridges should be slightly deformed after rolling flooring with a 100 - 150 lb. 3 section roller. Use a small hand roller in difficult to reach areas. After 1 hour, roll flooring in both directions with a 100-150 lb. 3-section roller.

**Recommended Trowel for Non-Porous & Porous Substrates:**  
1/16" x 1/16" x 1/16" Flat V-notch trowel = 125 – 145 ft<sup>2</sup>/gallon.

**Traffic:**

All traffic must be restricted to light foot traffic for a minimum of 24 hours after installation. Restrict heavy foot traffic, rolling loads, or furniture placement for 72 hours after installation.

**Clean Up:**

Use a clean white cloth dampened with water to remove wet adhesive. Dried adhesive may require the use of denatured alcohol or methyl hydrate applied to a clean white cloth. (Follow the manufacturer's precautions when using denatured alcohol or methyl hydrate)

**Shelf Life:**

One (1) year from date of manufacture in unopened container. Store in a fully enclosed climate-controlled area at 65 – 80° F (18 - 26° C).

**Limitations:**

For interior use only. Do not allow product to freeze. Do not install over any substrates containing asbestos. Do not use on substrates that have been chemically cleaned or over treated plywood. Do not use over asphalt-based (cutback) adhesive residues.

Be sure to review the most current Windmoeller Product Installation, Application, and Cleaning Guide prior to installing Windmoeller resilient flooring products. Please contact your Sales Representative, Customer Service, or Technical Support for any questions or concerns.

