

## Adhesive for Bamboo and Wood Floors

USFloors Adhesive is a one component 100% solids, cross linking, MS polymer-based adhesive formulated for the interior installation of wood block parquet, engineered wood plank, acrylic impregnated plank, pre-finished and unfinished solid wood flooring, and bamboo.

### BENEFITS:

- ◆ solvent free and isocyanate free, has negligible VOC content
- ◆ no hazardous chemicals as per OSHA Regulation CFR 1910.1200
- ◆ nonflammable low odor adhesive
- ◆ meets all Federal, State, and local governmental indoor air quality regulations
- ◆ Exceptional early strength buildup for immediate grab and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links
- ◆ Excellent concrete moisture inhibition (up to 10 lbs MVE when applied according to USFloors instructions) capability
- ◆ Sound reduction properties using the ASTM E-90-04, which meets the IIC (52), and STC (51) building code requirements
- ◆ Applies over APA grade underlayment plywood, association grade particleboard, cork underlayment, existing well-bonded vinyl tile and sheet flooring, terrazzo, cementitious and anhydrite screeds, concrete and radiant heated subfloors where surface temperatures do not exceed 85°F (30°C). Install above, on, or below grade, in the absence of excessive moisture.

### CRITICAL CRITERIA:

- ◆ While this adhesive is waterproof when cured, protecting the wood flooring from excessive moisture is necessary.
- ◆ For standard installations moisture levels of concrete **must be below 3 lbs. per 1,000 square feet per 24 hours** (1.36 kg per 92.9 m<sup>2</sup> per 24 hours) using an anhydrous calcium chloride test kit according to ASTM F-1869 test method.
  - An alternative method is to check the moisture content throughout the entire thickness of the subfloor with a properly calibrated carbide or electric hygrometer.
- ◆ The moisture content must be within the limits recommended by the wood flooring manufacturer, generally a maximum of 75% RH.
- ◆ Follow wood flooring manufacturer's guidelines for allowable levels of moisture.
- ◆ Wood underlayment must have moisture content below 12% using a Tramex or Delmhorst wood moisture meter.
- ◆ For concrete slabs with **excessive moisture levels up to 10 lbs** (ASTM F-1869) or a Relative Humidity (ASTM F-2170) level of **85%** or below
- ◆ use the USFloors one step application trowel or apply a pre-coat of USFloors Adhesive with a 3/16 X 5/32" saw-tooth trowel prior to installing the wood floor

### SUBSTRATE PREPARATION:

- ◆ Substrate must be sound, smooth, level, clean and dry
- ◆ It must be free of dust, dirt, wax, loose paint, incompatible curing compounds or fire retardant chemicals, fungicides, release agents, sealers, or any other foreign substances that might interfere with a good bond
- ◆ Substrate must be level to 3/16" in a 10 ft span (5mm in a 3m span)
  - When installing thin gauged wood (solid or engineered) irregular substrates may telegraph through as adhesive pulls wood down during curing stages
  - Therefore, properly level the substrate to prevent telegraphing
  - Fill all cracks, holes and low spots with polymer modified cementitious compound and allow curing in full
  - Refer to USFloors manufacturer's instructions before applying adhesive

- ◆ High spots must be ground level
- ◆ Substrate, adhesive and wood flooring must be acclimated in an enclosed building with the HVAC operational and running for at least 72 hours before, during and after the installation.
- ◆ Installation requires a temperature and relative humidity controlled between 60°F (15°C) and 85°F (30°C), and between 30% and 65% relative humidity, subject to the floor manufacturer's requirements
- ◆ Open time will vary with temperature and humidity or porosity of the substrate  
**Note:** Follow the wood flooring manufacturer's guidelines regarding site conditions and installation.

#### **TROWEL RECOMMENDATIONS:**

- ◆ All solid wood and engineered wood, bamboo, and all thickness pre-finished or unfinished  
3/16" x 1/4" x 1/2" flat V  
Up to 80 sf/ gallon
- ◆ Dry-back wood parquet  
1/8" x 1/8" x 1/8" square  
Up to 80 sf/ gallon
- ◆ Moisture inhibitor and sound reducer application  
3/16" x 5/32" saw tooth  
Up to 60 sf /gallon  
\*Trowel dimensions are width x depth x spacing. Coverage is approximate and may vary depending on the angle of the trowel and the porosity of the substrate.

#### **WOOD INSTALLATION:**

- ◆ Follow wood flooring manufacturer's guidelines for layout, design and any special precautions for installation
- ◆ Strict adherence to the USFloors written pre-installation and installation ensure legitimacy of the warranty.
  - NOTE: thin-gauged solid and engineered wood and exotic species are very sensitive to job site conditions
- ◆ Spread Adhesive using recommended trowel (see trowel recommendation chart)
- ◆ Install wood flooring immediately after adhesive is spread
  - Working time is approximately **50-60 minutes** under acceptable temperature and humidity conditions
  - Adhesive must transfer 100% to the wood floor
- ◆ Lay wood flooring into adhesive.
  - Wood may slip and move at first, so be sure to secure the initial row to limit movement and hold patterns.
- ◆ Occasionally lift a piece of wood to assure adhesive is achieving 100% transfer.
  - If proper transfer fails, remove dried adhesive and apply more using recommended trowel
  - The use of tape temporarily to hold the edges together may be necessary until installation is complete
- ◆ When installing near a solid object or wall, leave ample room for expansion (see flooring manufacturer's recommended expansion guidelines).
  - Installing wood too tight against a stationary object will not allow room for normal wood expansion, which may cause a failure.
- ◆ When the installation is complete, use wedges or some object to hold wood in place while adhesive dries.
  - Remove wedges after initial setting of adhesive (approximately 2 hours) to allow for normal expansion of wood.
  - Failure to remove wedges can cause the wood flooring to buckle and pop off the substrate.
- ◆ Roll and cross roll floor with a 100-150 lb. (45.36-68.04 kg) roller at the end of the installation to ensure proper transfer of adhesive.
- ◆ When installing unfinished wood flooring, wait a minimum of 72 hours before sanding.
- ◆ Turn the heat off for 24 hours before, during and 24 hours after installation when installing over radiant heated subfloors
  - Failure to turn the heat off may result in shortened working time of the adhesive.
  - Floor temperature must not exceed **85°F (30°C)**.

- ◆ Restrict light traffic for a minimum of 16 hours.
- ◆ Restrict heavy traffic for a minimum of 24 hours after installation is complete.
- ◆ While this adhesive is freeze-thaw stable it is necessary to protect it from freezing.

#### **MOISTURE INHIBITION AND SOUND REDUCTIONS INSTALLATION INSTRUCTIONS:**

- ◆ Using the 3/16" x 5/32" saw tooth trowel apply USFloors Wood Flooring Adhesive over the entire installation area
- ◆ Allow inhibitor film of adhesive to dry a **minimum of 4 hours** prior to proceeding with the wood installation
- ◆ USE recommended trowel for the adhesive for the wood installation with a swirling motion to fill the gaps present in the dried inhibitor film of the adhesive
- ◆ Leave a new trowel ridge to set the wood into
- ◆ Complete the installation using the standard wood installation procedures

#### **PHYSICAL PROPERTIES**

- ◆ VOCs: Negligible
- ◆ Appearance: Off white, smooth, easy-to-spread mastic
- ◆ Working time: Approximately 60 minutes, depending on job site conditions
- ◆ Shelf life: One year in unopened container at 70° F (21.10°C)
- ◆ Waterproof when cured, non-flammable
- ◆ Freeze/thaw stable to 10° F (-12.22°C)
- ◆ Clean Up: Clean up with Taylor Touchdown #9 Adhesive Remover/Stripper

#### **CAUTION**

DO NOT take internally. DO NOT induce vomiting if swallowed. Call a physician immediately.  
KEEP OUT OF REACH OF CHILDREN.

#### **WARRANTY INFORMATION**

The manufacturing of this product is according to exacting quality control standards and warranted free from manufacturing defects. Warranty offers replacement of defective material when called to our attention within one year of manufacture. No guarantee, expressed or implied, pertains regarding the performance of this product since the manner and conditions of application are beyond our control. For complete warranty information, contact us at [www.usfcontract.com](http://www.usfcontract.com)

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