

Premium Grade Wood Flooring Adhesive Specification Sheet

DESCRIPTION:

IronWood Premium Grade Wood Flooring Adhesive, is a one component 100% solids, cross linking, STPE polymer-based adhesive formulated for the interior installation of wood block parquet, engineered wood plank, acrylic impregnated plank, bamboo and pre-finished and unfinished solid wood flooring. IronWood also has good concrete moisture inhibition capability as well as good sound reduction properties that meets the IIC and STC building code requirements. Concrete floors over one-year-old with high moisture readings are usually indicative of a chronic underlying moisture source problems which must be determined prior to the wood flooring installation.

IronWood is solvent free and isocyanate free, has negligible VOC content, is a nonflammable, low odor adhesive that meets all federal, state, and local governmental indoor air quality regulations. This specially formulated adhesive has good early strength buildup for immediate grab and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links.

IronWood can be used over APA grade underlayment plywood, association grade particleboard, fully secured cork underlayments, 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. While this adhesive is waterproof when cured, the wood flooring still must be protected from excessive moisture.

For regular wood flooring applications not involving the moisture inhibition system: Moisture levels of concrete must be below 3 lbs. per 1,000 square feet per 24 hours using an anhydrous calcium chloride test kit according to ASTM F-1869 test method, or below 75% relative humidity tested in accordance with ASTM F-2170. 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 underlayments must have a moisture content below 12% using a Tramex or Delmhorst wood moisture meter.

If using IronWood as a moisture barrier or for sound reduction in addition to installation: Use recommended trowel (reference trowel recommendation chart) and follow Wood Installation instructions below to apply the moisture barrier and installation coat of adhesive. Ironwood can be used for concrete slabs with elevated moisture levels up to 10 lbs. per 1,000 square feet per 24 hours (using an anhydrous calcium chloride test kit according to ASTM F-1869 test method), and up to 90%RH (tested in accordance with ASTM F-2170. If using IronWood as a moisture barrier or for sound reduction in addition to adhesive installation, all conditions and exclusions as stated in the most current IronWood Warranty for Concrete Moisture Remediation must be strictly adhered to and met.

SUBSTRATE PREPARATION:

Substrate must be sound, smooth, level, clean and dry. It must be free of dust, dirt, wax, loose paint, all 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 (5 mm in a 3m span) Note: When installing thin gauged wood (solid or engineered) irregular substrates may telegraph through as adhesive pulls wood down during curing stages. Therefore, substrates must be properly leveled to prevent telegraphing. Fill all cracks, holes and low spots with polymer modified cementitious compound and allow to fully cure 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. The installation temperature and relative humidity must be 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: Wood flooring must be exposed to the air when being acclimated. However, follow the wood flooring manufacturer's guidelines regarding site conditions and installation.

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TROWEL

RECOMMENDATIONS:

For Moisture Control, Crack Isolation, Sound Reduction and Wood Adhesion:

For solid, engineered & bamboo wood flooring greater than 9/16" thick

For Wide/Long Plank

Estimated coverage: up to 20 sq. ft./gal

1/2" x 15/32" v notch

For solid, engineered & bamboo wood flooring less than 9/16" thick

Estimated coverage: up to 30 sq. ft./gal

3/4" x 1/4" v notch

For Only Wood Adhesion:

Dry-back wood parquet flooring

Estimated coverage: 60-70 sq. ft./gal.

1/8" x 1/8" x 1/8" Square notch

For solid, engineered & bamboo wood flooring

Estimated coverage: 50-60 sq ft/gal

3/16" x 1/4" x 5/16" v notch

WOOD INSTALLATION:

1. Follow wood flooring manufacturer's guidelines for layout, design and any special precautions for installation.
2. Spread adhesive using recommended trowel (see trowel recommendation chart). Install wood flooring immediately after adhesive is spread. Working time is approximately 50-70 minutes under acceptable temperature & humidity conditions. Adhesive must transfer 100% to the wood floor. NOTE: Thin-gauged solid & engineered wood and exotic species are very sensitive to job site conditions. Wood flooring manufacturers and TAYLOR written pre-installation and installation instructions, including acclimation of the wood flooring, must be strictly followed or the TAYLOR warranty will be void.
3. 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 is not achieved remove dried adhesive and apply more using recommended trowel. The use of tape to temporarily hold the edges together may be necessary until installation is complete.
4. 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.
5. Roll and cross roll floor with a 100-150 lbs (45-70 kg) roller at the end of the installation to ensure proper transfer of adhesive.
6. When installing unfinished wood flooring, wait a minimum of 72 hours before sanding.
7. When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and 24 hours after installation. Failure to turn the heat off may result in shortened working time of the adhesive. Floor temperature must not exceed 85°F (30°C).

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8. Restrict light traffic for a minimum of 16 hours. Restrict heavy traffic for a minimum of 24 hours after installation is complete.
9. While this adhesive is freeze-thaw stable it is necessary to protect it from freezing.
10. Call Taylor Technical 1-800-868-4583 ext. 221 for installation instructions on wood over 5 inches wide or 6 feet long.

OTHER PROPERTIES:

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).

Other features: 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.

STORAGE: This product should be stored at temperatures between 50° and 90° F (15° - 32° C). Storage conditions outside this range may cause product viscosity to increase.

CAUTION:

DO NOT take internally. If swallowed, DO NOT induce vomiting.

Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

Warranty Information: This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control. For complete warranty information, call Technical Services at 800-868-4583 ext 2221, visit us on the web at www.wftaylor.com or e-mail us at tech@wftaylor.com.

This product is packaged with 100% post-industrial reground plastic.

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