

1. PRODUCT NAME

PWA-400

2. MANUFACTURER

PROFLEX Products, Inc.
2826 Broadway Center Blvd
Brandon, Florida 33510
Telephone: 863-937-9623
Toll Free: 877-577-6353
Fax: 863-937-9624
Internet: www.proflex.us



3. PRODUCT DESCRIPTION

Description

PROFLEX® PWA-400 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. PROFLEX® PWA-400 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.

Advantages

- Moisture protection for most common installations
- Contributes to sound reduction
- High strength, water resistant bond

PROFLEX® PWA-400 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.

Trowel Recommendations:

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

FLOORING	TROWEL	ESTIMATED COVERAGE
For solid, engineered & bamboo wood flooring greater than 9/16" thick For Wide/Long Plank	1/2" x 15/32" V-notch	20 sq. ft. /gal.
For solid, engineered & bamboo wood flooring less than 9/16" thick	1/4" x 1/4" V-notch	30 sq. ft. /gal.

For Only Wood Adhesion

FLOORING	TROWEL	ESTIMATED COVERAGE
Dry-back wood parquet flooring	1/8" x 1/8" x 1/8" Square Notch	60-70 sq. ft. /gal.
For solid, engineered & bamboo wood flooring	3/16" x 1/4" x 5/16" V-notch	50-60 sq. ft. /gal.

Packaging

4 gallon pail

4. TECHNICAL DATA

Sound Ratings

61 STC

66 IIC

Tested on a 6" Concrete Slab with a Suspended Wallboard Ceiling
Overlaid with 3/8" Engineered Hardwood Flooring

5. INSTALLATION

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 PROFLEX® PWA-400 as a moisture barrier or for sound reduction:

Use recommended trowel (reference trowel recommendation chart) and follow Wood Installation instructions below to apply the moisture barrier and installation coat of adhesive. PROFLEX® PWA-400 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 PROFLEX® PWA-400 as a moisture barrier or for sound reduction, all conditions and exclusions as stated in the most current PROFLEX® PWA-400 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.

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 PROFLEX® written pre-installation and installation instructions, including acclimation of the wood flooring, must be strictly followed or the PROFLEX® 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).
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 PROFLEX® Technical at 877-577-6353 for installation instructions on wood over 5 inches wide or 6 feet long.

6. AVAILABILITY

PROFLEX Products are available nationwide.

To locate products in your area, please contact:

Phone: 877-577-6353

Website: www.proflex.us

7. WARRANTY

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 877-577-6353; visit us on the web at www.proflex.us; or e-mail us at technical@proflex.us

8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature: To acquire technical and safety literature, please visit our website www.proflex.us

10. FILING SYSTEM

Division 9