



# Polyurethane Moisture Vapor Barrier & Wood Flooring Adhesive

## 1. PRODUCT NAME

Fortane™ One Polyurethane Moisture Vapor Barrier & Wood Flooring Adhesive

## 2. MANUFACTURER

H.B. Fuller Construction Products Inc.  
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Aurora, IL 60504-6451 U.S.A.  
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## 3. DESCRIPTION

Fortane One is a revolutionary one-component urethane adhesive membrane specifically formulated to be used as an adhesive or as a moisture vapor retarder to reduce the transmission of water vapor from the subfloor for the applications where moisture could impact the performance of the wood flooring. Fortane One requires no pre-installation moisture testing and provides excellent acoustical benefits.

### Key Features and Benefits

- PRE-INSTALLATION MOISTURE TESTING NOT REQUIRED
- ZERO VOCs
- LEED® Qualified & California Proposition 65 Compliant
- Extremely easy to trowel
- Retains elasticity
- Outstanding green strength
- Bridges subfloor cracks up to 1/8"
- Safe to use on green products
- Solvent free
- Contains no water

### Packaging

3.5 gallon metal pail (13.25 L)

Product #149-3.5 US GAL

### Coverage

The proper notch trowel is very important in achieving satisfactory results with Fortane One. Use of an incorrect trowel will void all warranties. Quantities shown below are approximate only. Actual coverage may vary according to substrate conditions and types of trowel used.

ADHESIVE & MOISTURE BARRIER		
Substrate/Flooring Type	Recommended Trowel Size	Approximate Coverage
5/8" or less Engineered Plank / Bamboo 1/2" to 5/8" Solid Wood Plank / Shorts	3/16" x 1/4" V-notch trowel	35-40 ft <sup>2</sup> /gal.
3/4" Solid Wood Plank, Shorts or Plywood	1/4" x 1/4" x 1/4" V-notch trowel	30-35 ft <sup>2</sup> /gal.
ADHESIVE FOR SUBFLOORS WITH < 3 LBS / 1,000 FT <sup>2</sup> / 24 HOURS OR 75% RH		
Substrate/Flooring Type	Recommended Trowel Size	Approximate Coverage
Engineered Plank / Bamboo 1/2" or less and less than 7" wide	3/16" x 1/4" x 1/2" V-notch trowel	60-70 ft <sup>2</sup> /gal.
Engineered Plank / Bamboo thicker than 1/2" or 7" or wider	3/16" x 3/16" x 3/16" Square-notch trowel	35-45 ft <sup>2</sup> /gal.
Solid Wood Plank, Shorts or Plywood	1/4" x 1/4" x 1/4" Square-notch trowel	25-30 ft <sup>2</sup> /gal.

## Typical Applications

Fortane One is ideal for glue-down installations on all grades for all types of engineered, solid or acrylic impregnated wood flooring, bamboo and wood flooring, designed to be installed using the glue down installation method, that may require protection from damage due to subfloor moisture transmissions. When used as an Adhesive & Moisture Barrier, Fortane One reduces moisture to acceptable limits.

## Subfloor Preparation

Fortane One can be used over the following subfloors: concrete, Portland cement patch, terrazzo, ceramic tile, APA approved wood panels, radiant heat flooring, and cement backer board.

Ensure that the subfloor is structurally sound, smooth, dry, properly cured, clean and free from dust, dirt, grease, oil, plaster, paint, old adhesive, wax, curing agents, sealers, cutback or other asphaltic-based residue and any other contaminants that could interfere with a good adhesive bond.

**Concrete:** Pre-installation moisture testing is not required when using the moisture control installation method. Subfloor must have no pre-existing moisture conditions or failures from conditions of high alkali or hydrostatic pressure. The subfloor must be dry to the touch with no standing water or visible dampness and must be prepared to receive flooring in compliance with ASTM F710. Concrete subfloors over a year old with high moisture readings are indicative of a chronic underlying moisture source problem resulting from hydrostatic pressure or other moisture related exclusions such as broken pipes, leaky plumbing, sink overflow, flooding, weather conditions or improper maintenance. Problems caused by these moisture related exclusions will not be covered by the limited warranty.

**Terrazzo:** All polishes and glaze compounds must be completely stripped, and surface must be abraded by sanding. After sanding thoroughly vacuum (NO sweeping), to remove all loose dust particles. After vacuuming clean the entire substrate with mineral spirits and allow drying before installing the wood flooring.

**Plywood and OSB Type Subfloors:** All panels must be APA approved and securely fastened. Eliminate all squeaks and movement with SCREWS (not nails). Sand all high joints. Fill and patch low areas. Refer to wood flooring manufacturer for guidelines of moisture content difference between properly acclimated wood flooring and subflooring materials. (Typically should not exceed 4%)

**Radiant Heated Subfloors:** Fortane One is approved for use on hydronic system radiant heated subfloors, provided the wood flooring is approved over radiant heated subfloors. The system must be fully embedded in concrete. Lightweight or gypsum-based topping must be primed for glue down installation. Turn off the heat 48 hours prior to the installation and leave the heat off until 48 hours after the installation is completed.

## Storage

Store at 50° to 80°F (10° to 26°C) in a dry location. Refer to the Technical Data section of this PDS, for more information.

## Shelf Life

Maximum of 1 year from date of manufacture in unopened pail.

## Cautions

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Fortane brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Physical Properties

Fortane™ One Polyurethane Moisture Vapor Barrier & Wood Flooring Adhesive	
Description	
Tensile Strength	>300 psi
Elongation	150%
Maximum Subfloor Moisture	NO MAXIMUM SUBFLOOR MVER CRITERIA
Open Time	65°-75°F (18°-24°C) 60-90 minutes Will vary with temperature and humidity
Application Room Temperature	Between 65°F (18°C) and 95°F (35°C)
Flash Point	>200°F (>93.3°C)
Color	Brown
Cure Time	Light foot traffic after 8-10 hours Heavy foot traffic after 24 hours
Shelf Life	1 year from date of manufacture in unopened pail, stored at 50° to 80°F (10° to 26°C)
Acoustical Data	6" slab without drop ceiling: 52 dB STC ASTM E 90-09 50 dB IIC ASTM E 492-09  6" slab with drop ceiling: 63 dB STC ASTM E90-09 66 dB IIC ASTM E 492-09
VOC Content	0 grams per liter

5. INSTALLATION INSTRUCTIONS

For Moisture Control Application

1. Subfloor must be in compliance with "Subfloor Preparation" above before starting the installation.
2. Follow manufacturer's instructions for acclimation, floor layout and expansion space requirements. It is imperative the subfloor be flat, without dips, birdbaths or sudden rises (<sup>2</sup>/<sub>16</sub>" in 10' radius or <sup>1</sup>/<sub>8</sub>" in 6' radius).
3. Use the coverage chart to determine which trowel to use. The use of any other applicator or trowel will void all warranties and yield unsatisfactory results.
4. Trowel the adhesive parallel to the wood flooring in 24"-36" sections then immediately lay wood into wet adhesive before moving to next section. Always spread adhesive beyond where the last row of flooring stops to ensure there are no voids between stopping and starting points when spreading the adhesive. 100% adhesive transfer is required for moisture protection.
5. Repeat steps 3-4 until the job is complete.
6. It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

For Glue Down Only Application

Concrete Subfloors must be cured a minimum of 28 days with a pH between 7-10. If not, take corrective measures before proceeding. Subfloor must be properly prepared to receive flooring in compliance with ASTM F710. Subfloor moisture levels must not exceed wood flooring manufacturer's guidelines. When subfloor moisture levels exceed wood manufacturer's limit, use the moisture control installation method.

1. Select the correct trowel for the wood you are installing from the trowel chart. Using the incorrect trowel will void this adhesive warranty.
2. This is a wet-lay adhesive. Do not spread more adhesive than can be covered within 30-45 minutes.
3. Good transfer of the adhesive to the wood is critical. Periodically, pull back a board that has just been installed and make sure there is 90% adhesive transfer to the board.

4. Trowel tips will become worn down over time and must be changed to achieve correct coverage.
5. It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

NOTE: Do not set flooring into adhesive that has a dry skin. The "open time" of the adhesive will vary according to the temperature and humidity level-the higher the temperature and humidity level, the shorter the open time.

Clean-up

Using Fortane CL adhesive remover, remove any Fortane One smudges from the wood floor surface as well as tools and equipment as soon as possible before the adhesive dries. Carefully use a soft cloth and Fortane CL to remove Fortane One while it is still wet to not damage the floor.

6. AVAILABILITY

Fortane products are available nationwide. To locate Fortane products in your area, please contact:  
Phone: 800-832-9002  
Website: fortane.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product.** For Limited Warranty details visit fortane.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at fortane.com.

10. FILING SYSTEM

Division 9

To learn more, visit fortane.com



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