

### 1. PRODUCT NAME

Fortane<sup>TM</sup> LD Polyurethane Wood Floor Adhesive



### 2. MANUFACTURER

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Aurora, IL 60504-6451 U.S.A.  
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### 3. DESCRIPTION

Fortane LD is a high-performance one-component moisture cure urethane adhesive with the exclusive NO HOLLOW SPOT<sup>TM</sup> technology. Fortane LD combines superior ridge retention with powerful bond strength and ease of troweling. Fortane LD provides subfloor moisture control up to 95% RH and 15 lbs. MVER when the Moisture Control installation method is used.

#### Key Features and Benefits

- NO HOLLOW SPOT technology
- Extremely easy to trowel
- Moisture control up to 95% RH and 15 lbs. (6.80 kg) MVER
- Superior ridge retention
- Contains no water
- Powerful urethane bond strength
- Outstanding green strength
- Easy to clean
- LEED<sup>®</sup> Qualified & California Proposition 65 Compliant

#### Packaging

5 gallon pail (18.9 L)  
3.5 gallon pail (13.2 L)  
30 oz. cartridge (0.89 L)

Product #146-5 US GAL  
Product #146-3.5 US GAL  
Product #146-30 FL OZ

#### Coverage

Quantities shown below are approximate only. Actual coverage may vary according to substrate conditions and types of trowel used.

Glue Down Only Method		
Flooring Type	Recommended Trowel Size	Approximate Coverage
<sup>5</sup> / <sub>16</sub> " Fingerblock Parquet	<sup>1</sup> / <sub>8</sub> " x <sup>1</sup> / <sub>8</sub> " x <sup>1</sup> / <sub>8</sub> " Square-notch trowel	55-65 ft <sup>2</sup> /gal.
Engineered Plank or bamboo <sup>1</sup> / <sub>2</sub> " or less and less than 7" wide	<sup>3</sup> / <sub>16</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>2</sub> " V-notch trowel	60-70 ft <sup>2</sup> /gal.
Engineered Plank or bamboo thicker than <sup>1</sup> / <sub>2</sub> " or 7" or wider	<sup>3</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>16</sub> " Square-notch trowel	35-45 ft <sup>2</sup> /gal.
Solid Wood Plank, shorts or plywood	<sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " Square-notch trowel	30-40 ft <sup>2</sup> /gal.
Moisture Control Method		
Flooring Type	Recommended Trowel Size	Approximate Coverage
Parquet, engineered or solid plank or bamboo	<sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " V-notch trowel	30-35 ft <sup>2</sup> /gal.
For Use With Acoustic Underlayment		
Flooring Type	Recommended Trowel Size	Approximate Coverage
Crumb rubber or cork underlayment	<sup>1</sup> / <sub>16</sub> " x <sup>1</sup> / <sub>16</sub> " x <sup>1</sup> / <sub>16</sub> " Square-notch trowel	85-95 ft <sup>2</sup> /gal.

### Typical Applications

Fortane LD is ideal for glue-down installations on all grades of all types of engineered, solid or acrylic impregnated wood flooring, bamboo and wood flooring to all subfloors common to wood flooring. Fortane LD is also approved for use with crumb rubber and cork underlayments up to 5mm in thickness.

### Subfloor Preparation

Fortane LD can be used over subfloors that meet the National Wood Flooring Association (NWFA<sup>®</sup>) standards: concrete, plywood, OSB, terrazzo, and ceramic. If the type of subfloor that you want to apply Fortane LD to is not NWFA approved, please contact an H.B. Fuller Construction Products Inc. technical representative for instructions. 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. For application of Fortane LD over ceramic tiles, it is necessary to grind the tile surfaces and clean thoroughly with an industrial vacuum cleaner.

Before starting the installation, carefully check that the subfloor is flat. Eliminate dips and crowns that exceed <sup>3</sup>/<sub>16</sub>" (4.8 mm) in a 10-foot (3 m) radius by patching or sanding/grinding. Do not use Fortane LD as a leveling agent. Where needed, use only Portland cement based patching and leveling compound. Always follow the wood manufacturers' recommendations for subfloor moisture, subfloor levelness, expansion space and acclimation requirements. Repair all cracks in the subfloor greater than <sup>1</sup>/<sub>8</sub>" (3 mm) before applying Fortane LD. Moisture tests must be performed on all concrete subfloors regardless of grade level or age. Moisture testing must be performed in accordance to ASTM F-1869 – Calcium Chloride Test, or ASTM F-2170 – in situ RH Probe Test. Always refer to the wood flooring manufacturer for subfloor moisture requirements and testing procedures before proceeding with the installation.

For moisture levels higher than 95% RH or 15 lbs. (6.80 kg) MVER use Fortane<sup>TM</sup> MBA, Fortane<sup>TM</sup> Zero, or Fortane<sup>TM</sup> One adhesive, which provide unlimited moisture protection.

**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 LD 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 40°F to 95°F (5°C to 35°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.

### Limitations

- For interior installations only.
- Do not install over adhesive residue including cutback.
- Do not install when ambient temperature is not between 60°F & 95°F (15°C & 35°C).
- Do not install when ambient relative humidity is above 65%.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.
- Do not install when subfloor moisture vapor exceeds 95% RH (ASTM F2170) or MVER exceeds 15 lbs. per 1000ft<sup>2</sup> (6.80 kg per 92.9m<sup>2</sup>) per 24 hrs (ASTM F1869).

### 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 LD Polyurethane Wood Floor Adhesive	
Description	
Base Polymer	Urethane Adhesive
Color	Cream
VOC Content	<100 grams per liter
Consistency	Creamy liquid
Trowelability	Smooth
Shelf Life	1 year from date of manufacture in unopened pail
Storage	40° to 95°F (5°-35°C) in a dry location
Application Temperature	65°-95°F (18°-35°C)
Open Time	Up to 45 minutes, depending on ambient conditions
Freeze/Thaw Stability	Store above 40°F in a cool dry location
Acoustical Data	Without drop ceiling: 50 dB IIC With drop ceiling: 69 dB IIC 66 dB STC

#### 5. INSTALLATION INSTRUCTIONS

##### Application

##### Glue Down Only Method

- Reference the trowel chart in this Product Data Sheet and select the correct trowel for your application in the Glue Down Only Method section.
- Do not spread more adhesive than can be covered within 30-45 minutes.
- Adhesive working time and open time vary depending on temperature, humidity, and substrate.
- Good transfer of the adhesive to the flooring is critical. Coverage should be at least 90%. Pull back a newly installed board periodically and inspect for proper coverage.
- Trowels will wear down over time and must be changed regularly to achieve correct coverage.

##### Glue Down Only Method

- Reference the trowel chart in this Product Data Sheet and select the correct trowel for Moisture Control Method.
- Trowel the adhesive parallel to wood flooring in 2'-3' (.6-.9 m) sections and place wood immediately into wet adhesive. Spread adhesive beyond where the last row of flooring stops to ensure there are no voids between stopping and starting points.  
**100% adhesive coverage of subfloor is required for moisture protection.**
- Repeat step 2 to complete floor installation. Trowels will wear down over time and must be changed regularly to achieve correct coverage.

##### Clean-up

Using Fortane CL adhesive remover, remove any Fortane LD smudges from the wood floor surface as well as tools and equipment before the adhesive dries. Carefully use a soft cloth and Fortane CL to remove Fortane LD 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](http://fortane.com)



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