

1. PRODUCT NAME

Fortane™ LD Polyurethane Wood Floor Adhesive



2. MANUFACTURER

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3. DESCRIPTION

Fortane LD is a high-performance one-component moisture cure urethane adhesive with the exclusive NO HOLLOW SPOT™ technology. Fortane LD combines superior ridge retention with powerful bond strength and ease of troweling.

Key Features and Benefits

- NO HOLLOW SPOT technology
- Superior ridge retention
- Contains no water
- Powerful urethane bond strength
- Outstanding green strength
- Extremely easy to trowel
- Easy to clean
- LEED® 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.

Substrate/Flooring Type	Recommended Trowel Size	Approximate Coverage
Finger block parquet	1/8" x 1/8" x 1/8" Square-notch trowel	70-80 ft ² /gal.
Wood flooring <1/2" thick	3/16" x 3/16" x 5/32" V-notch trowel	45-55 ft ² /gal.
Wood flooring 1/2" to 5/8" thick	1/4" x 1/4" x 1/8" Square-notch trowel	40-50 ft ² /gal.
Wood flooring >5/8" thick	1/4" x 1/4" x 1/4" Square-notch trowel	30-40 ft ² /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.

Subfloor Preparation

Fortane LD can be used over subfloors that meet the National Wood Flooring Association (NWFA®) 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 3/16" (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 1/8" (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.

Do not use if the substrate exceeds the wood flooring manufacturer's moisture limits. Where moisture levels exceed the wood flooring manufacturers' limits, apply Fortane MVS Ultra to reduce excessive moisture levels (Refer to Fortane MVS Ultra technical data sheets.)

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.

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	Reddish Brown
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 STS

5. INSTALLATION INSTRUCTIONS

Application

Standard Installation

1. Read and understand all Safety Data Sheets and the Fortane™ Floor Covering Adhesives Limited Liability Warranty prior to installation.
2. Follow all requirements provided by the wood flooring manufacturer, including those related to wood flooring acclimation, room temperature and humidity levels, environmental controls, expansion space and layout.
3. Follow the instructions for "Subfloor Preparation" found above.
4. Follow the instructions for "Trowel Selection" below and select the appropriate notched trowel for the type of wood you are installing. For proper adhesive bond 90% transfer of adhesive to the flooring is required. Periodically check to ensure good transfer is achieved.
5. Apply Fortane LD to the subfloor with recommended trowel and lay the wood floor onto the "wet" adhesive. 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, the shorter the open time.

Glue Assist Installation

1. After the subfloor is properly prepared, as with any adhesive application, and meets the criteria of clean, flat, dry and sound, you are ready to install using glue assist method.
2. Insert Fortane LD cartridge into a standard large caulking gun. Cut the tip nozzle at a 45 degree angle so that the bead will be between 1/4"-3/8" in diameter. Apply Fortane LD onto the back of each board in a serpentine (S) pattern.
3. Bead should repeat approximately every 6" and be applied within 1" of the length sides and within 1" of the end of flooring plank. Bead pattern should repeat approximately every 4" for flooring 8" or wider.

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



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