

Technical Data Sheet

Polyurethane Wood Floor Adhesive

Product Description

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

FEATURES

- NO HOLLOW SPOTTM 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

Typical Applications

Fortane LDTM 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 LDTM 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 LDTM to is not NWFA approved, please contact a Royal Adhesives & Sealants 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 LDTM 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 feet (3 m) radius by patching or sanding/grinding. Do not use Fortane LDTM 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 LDTM.

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 UltraTM to reduce excessive moisture levels. (Refer to Fortane MVS UltraTM technical data sheets.)

Concrete Subfloors: Must be cured a minimum of 28 days and pH must be between 7-10. If not, take corrective measures before proceeding.

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 LDTM 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.

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

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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" 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 insure good transfer is achieved;
5. Apply Fortane LDTM 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.
6. It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

CLEAN UP: Using Fortane CLTM adhesive remover, remove any Fortane LDTM smudges from the wood floor surface as well as tools and equipment **before the adhesive dries**. Carefully use a soft cloth and Fortane CLTM to remove Fortane LDTM while it is still wet to not damage the floor.

Customer Service

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Warranty

Royal Adhesives and Sealants offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical service at 800 268-6111 or visiting www.fortane.com.

Trowel Selection

The proper notch trowel is very important in achieving satisfactory results with Fortane LDTM. Use of an incorrect trowel will void all warranties. Cartridges can be dispensed as a bead or as mass and troweled, depending on the application (when troweling is required be sure to follow trowel selection guidelines below). NOTE: 1/4" x 1/4" x 1/8" (6.4mm x 6.4mm x 3mm) square notch trowel can be used in place of our recommended trowel for 1/2" (13 mm) or less engineered flooring.

Wood Floor	5/16" Fingerblock Parquet	Engineered Plank or Bamboo 1/2" or Less and Less than 7" wide	Engineered Plank or Bamboo thicker than 1/2" or 7" or wider	Solid Wood Plank, Shorts or Plywood
Recommended Trowel	<p>Square Notch</p>	<p>V-Notch</p>	<p>Square Notch</p>	<p>Square Notch</p>
Coverage	55-65 sq. ft/ U.S. gal	60-70 sq. ft/U.S. gal	35-45 sq. Ft/U.S. gal	25-30 sq. ft/U.S. gal

***NOTE: Quantities shown above are approximate only. Actual coverage may vary according to substrate conditions and types of trowel used.**



Member
National Wood Flooring Association



November 2015

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Technical Data	
Tensile Strength	> 300psi
Open Time	65°F-75°F (18°C-24°C) 90 minutes Note: Open times will vary with temperature and humidity.
Application Room Temperature	Between 65°F (18°C) and 90°F (35°C)
Packaging	30 oz (0.88 L / 880 ml) cartridges 3.5 gal (13.25 L) pail = 37 lb (17 kg) 5 gal (18.9 L) pail = 53 lb (24 kg)
Flash Point	>152°F (>67°C)
Color	Brown
VOC	< 100 g/L
Cure Time	Light foot traffic after 8-10 hours Heavy foot traffic after approx. 24 hours
Shelf Life	One year from date of manufacture; stored at 50-80°F (10-26°C).
Acoustical Testing	IIC – 69 dB STC – 66 dB IIC – 50 (No ceiling)



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