



Fortane^{LD}TM

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
- Retains elasticity
- 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 and cork 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 Chemque representative for instructions.

Mechanical surface profiling is the only accepted method of subfloor preparation where warranties are issued. Acid etching is not recommended. Shotblast the floor to medium grit sandpaper texture to remove curing and surface contaminants. 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 1/8" (3 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.

Repair all cracks in the subfloor greater than 1/8" (3 mm) before applying Fortane LDTM.

Newly poured concrete must be cured for a minimum of 42 days before application of 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. Moisture levels must not exceed 3 lbs/1000 sq ft/ 24 hours (14.6 g/m² for 24 hours) (as per ASTM F-1869) or 75 %RH (as per ASTM F-2170).

Where moisture levels exceed the above limits, apply Fortane MVS UltraTM to reduce excessive moisture levels. (Refer to Fortane MVS UltraTM technical data sheets.)

Chemical and Physical Properties

Tensile Strength	> 250psi (>1724 kpa)
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 60°F (15°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 Properties	IIC – 68 dB (ASTM E492-04/ E989-06) STC – 66 dB (ASTM E90-04/ E413-04)

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Installation

1. Read and understand all Material Safety Data Sheets and the "Wood Flooring Adhesive Bond and Moisture Protection Warranties" 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" 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 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.
 6. To maximize coverage it is recommended to trowel Fortane LD perpendicular to the direction of the flooring.

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.

Trowel Selection

The proper notch trowel is very important in achieving satisfactory results with Fortane LD™. 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 1/2" or less and less than 7" wide	Engineered Plank thicker than 1/2" or 7" or wider	Solid Wood plank, Shorts or Plywood
Recommended Trowel				
Coverage	70-80 sq. ft/ U.S. gal	70-85 sq. ft/U.S. gal	35-45 sq. ft/U.S. gal	30-35 sq. ft/U.S. gal
Cork Type	Cork Underlayment			
Recommended Trowel				
Coverage	120-130 sq. ft/U.S. gal			

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

Health and Safety

Combustible. Use in a well ventilated area. Product contains isocyanates. Inhalation may be harmful. Prolonged or repeated skin exposure may cause skin irritation. Do not swallow and avoid eye contact. If Fortane LD™ comes in contact with skin, wash with soap and flowing water. Seek medical advice if irritation persists. If Fortane LD™ comes in contact with eyes, flush with water for 15 minutes and seek medical advice. If adverse respiratory effects occur, move to a fresh air area and seek medical advice. If swallowed, do not induce vomiting and seek medical advice. For additional information, refer to Material Safety Data Sheet. **KEEP OUT OF THE REACH OF CHILDREN.**

Customer Service

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