



Zero VOC Adhesive

Polyurethane Moisture Vapor Barrier and Wood Flooring Adhesive

Product Description

Fortane One™ is a revolutionary one-component urethane adhesive membrane specifically formulated to be used as an adhesive for installations that meet the manufacturer's moisture requirements 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.

FEATURES:

- Powerful urethane bond strength
- Outstanding green strength
- Contains no water
- **Zero VOC's**
- Extremely easy to trowel
- Retains elasticity
- LEED® Qualified & California Proposition 65 Compliant
- Protects wood flooring against moisture vapor through the subfloor
- Bridges subfloor cracks up to 1/8"
- Safe to use on green products
- Solvent free

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



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INSTALLING WOOD FLOORING 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 (3/16" in 10' radius or 1/8" in 6' radius).
3. Use the trowel chart below 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.

INSTALLING WOOD FLOORING 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.

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 One™. Use of an incorrect trowel will void all warranties.



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Wood Floor	5/8" or less Engineered Plank / Bamboo 1/2" – 5/8" Solid wood plank / shorts	3/4" Solid Wood Plank, Shorts or Plywood	Engineered Plank / Bamboo 1/2" or less and less than 7" wide	Engineered Plank / Bamboo thicker than 1/2" or 7" or wider	Solid Wood plank, Shorts or Plywood
Application	Adhesive and Moisture Barrier		Adhesive for subfloors with < 3 lbs/1000 ft² / 24 hours or 75 %RH		
Recommended Trowel	V-Notch 	V-Notch 	V-Notch 	Square Notch 	Square Notch
Coverage	35-40 sq.ft./U.S. gal	30-35 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.**

Technical Data	
Tensile Strength	> 300 psi
Elongation	150%
Maximum Subfloor Moisture	NO MAXIMUM SUBFLOOR MVER CRITERIA
Open time	65°F-75°F (18°C-24°C) 60-90 minutes Note: Open times will vary with temperature and humidity.
Application Room Temperature	Between 65°F (18°C) and 95°F (35°C)
Packaging	3.5 gal pail = 47 lb (21 kg)
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	One year from date of manufacture; stored at 50-80°F (10-26°C)
VOC	ZERO VOC's

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