

Fortane MVS Ultra™

Technical Data Sheet

Moisture Vapor & Acoustical Urethane Membrane

Product Description

Fortane MVS Ultra™ is an advanced one-component urethane membrane specifically formulated to reduce the transmission of moisture vapor from the subfloor, provide a noise reduction barrier and bridges cracks up to 1/8 inch (3 mm).

FEATURES

- Protects wood flooring against moisture vapor through the subfloor
- Bridges subfloor cracks up to 1/8" (3 mm)
- Compatible with Fortane™ Wood Flooring Adhesives
- Provides excellent acoustical sound properties
- Recommended for use on green projects
- LEED® Qualified & California Proposition 65 Compliant



Chemical and Physical Properties

Application room temperature:	Between 50°F-100°F (10°C - 38°C)
Full cure time:	12-16 hours
Maximum subfloor MVER	12 lb/1000 sq. ft. for 24 hours (58.4 g/m ² for 24 hours) (ASTM F-1869)
Acoustical properties:	IIC - 68db (ASTM E492-04, E989-89) STC - 67db (ASTM E90-04, E413-04)
Packaging:	3.5 gal (13.25 L) pail = 42 lb (19 kg) 5 gal (18.9 L) pail = 59.5 lb (27 kg)
Color:	Green
Flash point:	>163°F (>72°C)
VOC	85 grams / litre
Shelf Life:	One year from date of manufacture, stored at 50- 80°F (10-26°C)

Typical Application

Fortane MVS Ultra™ is ideal for protecting glued-down wood flooring installations from damage due to subfloor moisture vapor transmission, reduces acoustical sound and impact transmissions. Fortane MVS Ultra™ reduces moisture to acceptable limits from a high of 12 lbs MVER (58.4 g/m²) or 97 %RH. Use Fortane MVS Ultra™ to manage moisture vapor when test results exceed 3lbs per 1000 sq. ft (14.6 g/m² for 24 hours) (in accordance with ASTM F-1869) / 75 %RH (in accordance with ASTM F-2170) or when concerns of future moisture are present.

Subfloor Preparation

Fortane MVS Ultra™ can be used over the following subfloors: concrete, Portland cement patch, terrazzo, ceramic tile, radiant heat flooring, and cement backer board. Do not use over resilient flooring when installing wood flooring.

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

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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 MVS Ultra™ 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" in a 10 feet (3 mm in a 3 m) radius by patching or sanding/grinding. Do not use product as a leveling agent. Where needed, use

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 the instructions for "Subfloor Preparation" above
3. Use the recommended trowel to apply Fortane MVS Ultra™. Product will self-level to a 30-35 (0.75 - 0.9 mm) mil thickness
4. Wait for approximately 12-16 hours for the Fortane MVS Ultra™ layer to fully cure

only Portland cement based patching and leveling compounds. Repair all cracks in the subfloor greater than 1/8" (3 mm) before applying Fortane MVS Ultra™.

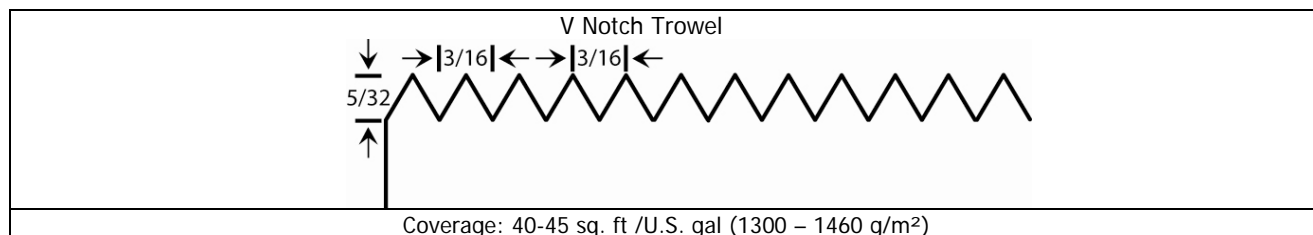
Newly poured concrete must be cured for a minimum of 42 days before application of Fortane MVS Ultra™. Moisture tests must be performed on all concrete subfloors regardless of grade level or age. Moisture testing must be performed in accordance to ASTM F-1869 – Calcium Chloride Test, or ASTM F-2170 – *in situ* RH Probe Test. Moisture levels must not exceed 12 lbs/1000 sq ft/ 24 hours (58.4 g/m²) (as per ASTM F-1869) or 97 %RH (as per ASTM F-2170).

(Higher humidity and temperature will accelerate the product's cure)

5. Only use Fortane Zero™ or Fortane LD™ Wood Flooring Adhesives to install the flooring following the instructions on the adhesive pail label.

CLEAN UP: Using Fortane CL™ adhesive remover will remove any Fortane MVS Ultra™ smudges from surfaces as well as tools and equipment as soon as possible before the product dries. Carefully use a soft cloth and Fortane CL™ to remove Fortane MVS Ultra™ while it is still wet to not damage surfaces.

Trowel Selection



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 skin contact occurs, wash with soap and flowing water. Seek medical advice if irritation persists. If eye contact occurs 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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