

1. PRODUCT NAME

Fortane™ LVT-1F Premium Universal Adhesive

2. MANUFACTURER

TEC Specialty Products LLC
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Aurora, IL 60504-6451 U.S.A.
800.832.9002 Customer Service
800.832.9023 Technical Support
tecspecialty.com

3. DESCRIPTION

Fortane LVT-1F Premium Universal Adhesive is a solvent-free adhesive formulated for the installation of dimensionally stable LVT & vinyl plank without attached backing, PVC and carpet tile, VCT, quartz tile, approved bio-based tile, fiberglass-backed sheet flooring and vinyl backed resilient sheet flooring. This high-strength adhesive is designed for installations over porous and non-porous substrates. LVT-1F is CRI Green Label Plus Certified, and is SCAQMD 1168 compliant.

Key Features and Benefits

- Premium PSA offering aggressive tack and robust adhesion with very high shear and peel strength
- Long working time—Up to 12 hours
- Ultra-fast strength build—Immediate foot traffic after PSA method installation
- Heat weld after 4 hours (PSA installation)
- High moisture tolerance—Up to 99% RH & 12 lbs MVER
- Repositionable installation for dry-set
- Can install Semi-Wet Set or PSA method

Packaging

4 gallon plastic pail (15.13 L)

Product #10018172

Coverage

Determine recommended trowel size based on flooring type. Coverage will vary with the absorption of substrate and trowel size. Figures below are presented only as guidelines.

Substrate/Flooring Type	Recommended Trowel Size	Approximate Coverage*
Porous substrates	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) Square-notch trowel	125-175 ft ² /gal. or 14-20 yd ² /gal. (12-16 m ² /3.78 L)
Non-Porous substrates	1/16" x 1/32" x 1/32" (1.6 x 0.8 x 0.8 mm) U-notch trowel	175-250 ft ² /gal. or 19-28 yd ² /gal. (16-23 m ² /3.78 L)
Cushion-Backed or Fiber Glossed-Backed Sheet Vinyl / Smooth-Backed Vinyl or Carpet Tile	3/8" Nap roller	250-350 ft ² /gal. or 27-38 yd ² /gal. (23-32 m ² /3.78 L)

*If recommended spread rate is exceeded, a loss of bond may occur.

Recommended Applications

- Residential
- Light & Heavy Commercial
- Healthcare
- Institutions

Recommended Substrates

- Concrete
- Portland Based Underlayments
- Properly Prepared Gypsum
- APA Approved Plywood
- Terrazzo

- Fiber Cement Underlayment
- Radiant Heated Subfloors
- Properly Prepared VCT (Single Layer)
- Properly Prepared Sheet Vinyl (Single Layer, fully adhered)

Substrate Preparation

Follow flooring manufacturer's guidelines for allowable levels of concrete moisture content. Concrete substrate must be cured at least 28 days and prepared in accordance with ASTM F710. All concrete slabs must have an intact vapor barrier per ASTM E1745. Moisture tests are required on concrete subfloors. Moisture testing should be performed by ASTM F2170 In Situ Relative Humidity Test with readings not to exceed ninety-nine (99) percent or ASTM F1869 Calcium Chloride Test with MVER not to exceed twelve (12) lbs. per one thousand (1,000) square feet per twenty-four (24) hours. The maximum pH levels should not exceed a reading of 12.

Storage

Store at a moderate room temperature. Protect adhesive from freezing. Refer to the Technical Data section of this PDS, for more information.

Shelf Life

Maximum 2 years from date of manufacture in unopened container.

Limitations

- For interior installations only.
- Flooring must be acclimated per manufacturer's instructions.
- Do not install when the concrete RH is over 99%, per ASTM F2170.
- Do not install when MVER is over 12 lbs. per 1,000 ft² per 24 hours, per ASTM F1869.
- Although LVT-1F is a moisture tolerant adhesive, it does not form a moisture vapor barrier and will not protect flooring from moisture damage. Use of a moisture mitigation product such as Fortane™ EZ MVB may be required for higher moisture content concrete.
- Do not install when the pH is greater than 12.
- Install only when the substrate temperature is between 50° and 90°F (10°-32°C).
- Do not install into wet adhesive over nonporous substrates.
- Do not apply over adhesive residues.
- The dimensional stability of some vinyl flooring products is very sensitive to fluctuations in ambient environment conditions. TEC Specialty Products LLC is not responsible for installation issues caused by dimensional changes in flooring.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

Cautions

Read complete cautionary information printed on product container prior to use. Non-hazardous; no special precautionary measures are required. 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, TEC Specialty Products LLC cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Physical Properties

Fortane LVT-1F Premium Universal Adhesive	
Description	
Base Polymer	Acrylic Polymer
Color	Light Straw
Solids	57-61%
VOC Content	<1 gram per liter

Description	
pH	8.7
Consistency	Paste
Trowelability	Light, Easy
Shelf Life	Two years in unopened container.
Storage	40°-95°F (4°-35°C)
Application Temperature	50°-90°F (10°-32°C)
Traffic Restrictions	Foot traffic after 12 hours and heavy traffic after 24 hours for Semi-Wet Set. Light foot traffic allowed immediately after rolling, heavy traffic after 12 hours for PSA Method.
Open Time	Up to 12 hours depending on porosity and environmental conditions
Freeze/Thaw Stability	5 cycles at 20°F (-6°C)

8. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

5. INSTALLATION INSTRUCTIONS

Application

1. Refer to all manufacturer's recommendations and approvals prior to installation.
2. For indoor use only.
3. Read installation instructions and SDS thoroughly prior to installation.
4. For best results install at 70°F (21°C) [$\pm 5^\circ$] and 50% R.H. ($\pm 5\%$).
5. For proper trowel or roller selection please see Coverage section in this document.
6. Spread adhesive using the recommended trowel or roller.
 - **PSA Method** (Porous and Non-Porous Substrates). Recommended for LVP/LVT.
 - Allow spread adhesive to dry for 30-60 minutes or until adhesive is clear and does not transfer to fingertips when lightly touched.
 - Install flooring within 12 hours. Protect open adhesive from dust and debris.
 - **Semi-Wet Set Method** (Porous Substrates Only). Will result in a permanent installation and limited repositionability.
 - Allow spread adhesive to partially dry for 10-15 minutes, then install flooring.
 - Working time is approximately 20-30 minutes depending upon conditions.
7. Within 1 hour of placing flooring into the adhesive you must roll and cross roll the floor with a 100 lb. three-section roller to assure full transfer to the backing of the floor covering.

Clean-up

Remove wet adhesive immediately with a damp cloth. Use Mineral Spirits to remove dried adhesive. **CAUTION: Mineral Spirits are flammable. Read and follow all precautions on container label.**

6. AVAILABILITY

Fortane products are available nationwide.

To locate Fortane products in your area, please contact:

Phone: 800-832-9002

Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **TEC Specialty Products LLC 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 tecspecialty.com. To obtain a hard copy of the Limited Warranty call TEC Specialty Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

To learn more, visit TECSpecialty.com



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