

# Ultrabond ECO 371

Pressure-Sensitive Adhesive for Luxury Vinyl Tile



## DESCRIPTION

*Ultrabond ECO*® 371 is a high-performance, pressure-sensitive adhesive that is designed for the installation of luxury vinyl tile (LVT) flooring as well as other resilient flooring materials. *Ultrabond ECO* 371 can be used as a pressure-sensitive adhesive or installed wet or semi-wet over porous substrates for enhanced performance.

## FEATURES AND BENEFITS

- Dries quickly
- Offers 12 hours of working time
- Aggressive tack and bond strength

## INDUSTRY STANDARDS AND APPROVALS

- RFCI IP #2, Recommended Installation Practice for Vinyl Composition Tile (VCT)

## WHERE TO USE

- Approved for use with LVT and luxury vinyl plank (LVP); vinyl-enhanced tile; VCT; fiberglass-reinforced sheet vinyl; solid and heterogenous vinyl sheet; cork underlayment; and carpet pad to floor in double-stick carpet installations

## LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Install flooring only in areas recommended by the flooring manufacturer.
- Do not install carpet tile into wet adhesive over nonporous substrates.

- Do not apply over any adhesive residues, including cutback adhesive.
- Do not install when the relative humidity (RH) of the concrete slab exceeds 99% (per ASTM F2170).
- Do not install when the moisture vapor emission rate (MVER) exceeds 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (per ASTM F1869).
- Do not install if the reading on a non-destructive, impedance-type concrete moisture meter reads greater than 5 for concrete slabs or greater than 2 for gypsum substrates (per ASTM F2659).
- Do not install in areas with known hydrostatic moisture problems, osmotic blistering or alkali-silica reaction.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient RH is between 20% and 80%.
- Do not install unless the temperature of the prepared concrete slab is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point, in order to avoid condensation.
- Do not use when the pH of the concrete slab is greater than or equal to 12.
- Do not use as a moisture barrier. Although *Ultrabond ECO 371* has high moisture resistance, it does not block moisture from migrating through the adhesive layer and causing damage to moisture-sensitive floor covering.
- The dimensional stability of some flooring products is sensitive to fluctuations in ambient environmental conditions. MAPEI is not responsible for installation issues caused by dimensional changes in flooring.
- *Ultrabond ECO 371* does not prevent indentations of the flooring in areas subject to heavy rolling loads or heavy static loads.

## SUITABLE SUBSTRATES

- Porous or nonporous concrete (at least 28 days old) installed per guidelines outlined in ASTM F710
- Exterior-grade plywood, Group 1, CC type and other approved wood underlayments (per manufacturer recommendations)
- Cement or epoxy terrazzo
- Cement-based, self-leveling underlayments and patching compounds
- Embossing levelers applied over existing and fully bonded ceramic tile and sheet vinyl
- A single layer of fully bonded vinyl composition tile (VCT)
- Properly primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- Properly installed MAPEI moisture barriers

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

- All substrates must be properly prepared, structurally sound, dry, solid and stable.
- Substrates should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth.
- Substrates must be flat to 3/16" in a 10-foot span (4.5 mm in a 3.05-m span).

See the "Surface preparation requirements for resilient/carpet flooring" reference guide in the Floor Covering Installations Systems page on MAPEI's Website.

## MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Ready to use; no mixing is necessary.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. Refer to the flooring manufacturer's recommendations for adhesive application rate and installation method, such as the wet-set, semi-wet-set, dry/pressure-sensitive and back-rolled methods.

1. Select the appropriate application tool (see the "Approximate Coverage" chart below) and spread the adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.
2. On nonporous substrates, allow the adhesive to remain open for 30 minutes to 1 hour or until dry to the touch, and then place the flooring.
3. On porous substrates, flooring can be installed into semi-wet adhesive. Or allow the adhesive to remain open for 20 to 30 minutes or until the adhesive skins over.
4. Only apply as much adhesive as can be installed within 12 hours. Protect the open adhesive from dust and debris, which will inhibit proper bond and decrease tack.
5. Roll flooring according to the manufacturer's recommendations.

## CLEANUP

- Promptly use water to clean any adhesive smudges from the flooring material's surface while the adhesive is still fresh/wet.
- Use water to clean tools while the adhesive is still fresh/wet.
- If the adhesive has dried, clean with mineral spirits. Use caution with mineral spirits, which may be harmful to some materials.

## PROTECTION

- When installed into dry tacky adhesive, the flooring can accept immediate traffic. If installation is into semi-wet or wet adhesive, protect the installed flooring from light traffic for 12 hours and from heavy traffic for 24 hours.
- Building owners should become aware of the flooring manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation.

### Product Performance Properties

Laboratory Tests	Results
Solids content	< 48%
Density	8.3 lbs. per U.S. gal. (0.99 g per mL)
Flash point (Tag, closed cup) – ASTM D56	> 212°F (100°C)
VOC content (SCAQMD Rule 1168)	< 50 g per L

Typical VOC content per SCAQMD Rule 1168 testing methods	33 g per L
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### Shelf Life and Product Characteristics

<b>Shelf life</b>	2 years when stored in original, unopened packaging at 73°F (23°C)
<b>Polymer type</b>	Acrylic latex
<b>Consistency</b>	Creamy
<b>Color</b>	Bluish green

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

### Application Properties

at 73°F (23°C) and 50% relative humidity

Over Porous Substrates and Nonporous Substrates	
<b>Flash time*</b>	15 to 30 minutes
<b>Working time**</b>	12 hours

\* Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

\*\* Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

Flash time and working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

### Approximate Coverage

per 4 U.S. gals. (15.1 L)\*\*\*

Substrate Type	Typical Application Tool	Coverage
Porous substrates	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm), square-notched trowel	500 to 740 sq. ft. (46.5 to 68.7 m <sup>2</sup> )
Nonporous substrates	1/16" x 1/32" x 1/32" (1.5 x 1 x 1 mm) U-notched trowel	740 to 980 sq. ft. (68.7 to 91.0 m <sup>2</sup> )

\*\*\* Trowel dimensions are depth/width/space. Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

## Packaging

Size
Pail: 4 U.S. gals. (15.1 L)

## ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability\\_USA@mapei.com](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

## WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

#### LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

## CONTACT INFORMATION

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Edition Date: July 8, 2025 MK 3000550 (25-1951)

For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
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