

Ultrabond ECO 373

Universal, Pressure-Sensitive, Multi-Flooring
Adhesive



DESCRIPTION

Ultrabond ECO[®] 373 is a super aggressive, pressure-sensitive adhesive that is designed for the installation of a wide variety of resilient flooring types. *Ultrabond ECO* 373 has been specifically formulated to provide extended working time and can be applied using a trowel or roller, depending on the level of tack that is required for the flooring that is being installed. *Ultrabond ECO* 373 can also be used for flash-coving installations using traditional installation methods.

FEATURES AND BENEFITS

- Dries quickly with super aggressive tack properties
- Up to 12 hours of working time
- Apply using either a trowel or roller, depending on the flooring type.

INDUSTRY STANDARDS AND APPROVALS

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.
- RFCI IP #2, Recommended Installation Practice for Vinyl Composition Tile (VCT)

WHERE TO USE

- Approved for use with luxury vinyl tile (LVT) and luxury vinyl plank (LVP); vinyl-enhanced tile; quartz tile; bio-based tile; fiberglass-reinforced vinyl sheet flooring; solid vinyl sheet flooring; reground rubber underlayment; rubber sheet and tile flooring; cork underlayment; and vinyl- and polyolefin-backed carpet tile

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 into wet adhesive over nonporous substrates.
- Do not use to install LVT or LVP with known dimensional stability issues.
- Do not use to install LVT or LVP in areas subject to high heat or direct sunlight.
- Do not apply over any adhesive residues, including cutback adhesive.
- Do not install when the moisture vapor emission rate (MVER) exceeds 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 99% (ASTM F2170).
- 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 to avoid condensation.
- Do not use when the pH of the concrete slab is greater than or equal to 12.

SUITABLE SUBSTRATES

- 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 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.

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

- Protect from light traffic for 24 hours, and from heavy traffic for 72 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	54% to 60%
Polymer type	Acrylic latex
VOCs (Section 01350 of California’s CDPH)	Passed
VOCs (Rule #1168 of California’s SCAQMD)	< 10 g per L
Density	8.3 lbs. per U.S. gal. (0.99 g per mL)
Flash point (Tag, closed cup) – ASTM D56	> 212°F (100°C)

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Consistency	Creamy
Color	Off-white

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	
Flash time*	15 to 30 minutes
Working time**	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***

Flooring Type	Typical Application Tool	Coverage
LVT/LVP, bio-based tile, vinyl-enhanced tile, solid vinyl sheet flooring, reground rubber underlayment, rubber sheet and tile flooring on porous substrates	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm), square-notch	500 to 740 sq. ft. (46.5 to 68.7 m ²) per 4 U.S. gals. (15.1 L)
		125 to 185 sq. ft. (11.6 to 17.2 m ²) per 1 U.S. gal. (3.79 L)
		31 to 46 sq. ft. (2.88 to 4.27 m ²) per 1 U.S. qt. (946 mL)
LVT/LVP, bio-based tile, vinyl-enhanced tile, solid vinyl sheet flooring, reground rubber underlayment, rubber sheet and tile flooring on nonporous substrates	1/16" x 1/32" x 1/32" (1.5 x 1 x 1 mm), U-notch	740 to 980 sq. ft. (68.7 to 91.0 m ²) per 4 U.S. gals. (15.1 L)
		185 to 245 sq. ft. (17.2 to 22.8 m ²) per 1 U.S. gal. (3.79 L)
		46 to 61 sq. ft. (4.27 to 5.67 m ²) per 1 U.S. qt. (946 mL)
Vinyl- and polyolefin-backed carpet tile, and fiberglass-reinforced sheet vinyl	1/16" x 1/32" x 1/32" (1.5 x 1 x 1 mm), U-notch	740 to 980 sq. ft. (68.7 to 91.0 m ²) per 4 U.S. gals. (15.1 L)
		185 to 245 sq. ft. (17.2 to 22.8 m ²) per 1 U.S. gal. (3.79 L)
		46 to 61 sq. ft. (4.27 to 5.67 m ²) per 1 U.S. qt. (946 mL)
Vinyl- and polyolefin-backed carpet tile, and fiberglass-reinforced sheet vinyl	1/4" (6 mm) nap roller	1,000 to 1,400 sq. ft. (92.9 to 130 m ²) per 4 U.S. gals. (15.1 L)
		250 to 350 sq. ft. (23.2 to 32.6 m ²) per 1 U.S. gal. (3.79 L)
		62 to 87 sq. ft. (5.76 to 8.08 m ²) per 1 U.S. qt. (946 mL)

*** 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: 1 U.S. qt. (946 mL)
Pail: 1 U.S. gal. (3.79 L)
Pail: 4 U.S. gals. (15.1 L)

RELATED DOCUMENTS

- Reference guide: “Surface preparation requirements for resilient/carpet adhesive” for floor-covering installation systems[†]

[†]At www.mapei.com

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-durabilite@mapei.com.

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. **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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For the most current product data and BEST-BACKEDSM warranty information, visit www.mapei.com.

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