

Ultrabond ECO 379

High-Performance, Roller-Applied, Multi-Flooring
Adhesive



DESCRIPTION

Ultrabond ECO® 379 is an aggressively pressure-sensitive adhesive resistant to high moisture and to heavy rolling loads. It is designed for fast-track roller application, reducing time spent in adhesive application.

FEATURES AND BENEFITS

- Roller-applied
- Resistant to high moisture
- Resistant to heavy rolling loads
- Up to 12 hours of working time

WHERE TO USE

- Approved for use with luxury vinyl tile, luxury vinyl plank, vinyl enhanced tile, vinyl composition tile (VCT), quartz tile, bio-based tile, fiberglass-reinforced vinyl sheet flooring, solid vinyl sheet flooring, solid rubber sheet and tile flooring, cork underlayment, and vinyl-backed and polyolefin-backed carpet tile

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior installations only
- Install flooring only in areas recommended by the flooring manufacturer.

- Do not install flooring into wet adhesive over nonporous substrates or those with high moisture content.
- 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 if the pH of the substrate is greater than or equal to 12.
- Do not install in areas with known hydrostatic and/or moisture problems.
- Do not install if liquid water is present on the surface of the substrate.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not install unless the surface temperature of the substrate is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point.

SUITABLE SUBSTRATES

- Concrete (at least 28 days old) installed according to ASTM F710-18
- Cement terrazzo
- Exterior-grade plywood and other approved wood substrates (per the flooring manufacturer's recommendations)
- Cement-based, self-leveling underlayments and patching compounds
- Properly primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Radiant-heat systems that are maintained at a maximum surface temperature of 85°F (29°C)
- Properly installed and sound MAPEI moisture barriers

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

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- The substrate 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 affect the overall performance of the product.
- Substrates must be flat to 3/16" in a 10-ft. span (4.5 mm in a 3.05-m span).

See the "Surface preparation requirements" reference guide in the Floor Covering Installation Systems section of MAPEI's Website.

MIXING

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

- Ready to use, with no mixing necessary

PRODUCT APPLICATION

Refer to the flooring manufacturer's guidelines for acclimation requirements and complete installation instructions. Read all installation instructions thoroughly before installation.

1. Pour *Ultrabond ECO 379* into a suitable paint tray and fully load a 3/8" (10 mm) nap roller with adhesive or dip the roller head into an open bucket of adhesive. Do not pour *Ultrabond ECO 379* directly onto the subfloor.
2. Spread the adhesive evenly over the subfloor at a coverage rate of about 8 to 12 mils in wet film thickness (WFT). Do not exceed 400 sq. ft. (37.2 m²) per U.S. gallon (3.79 L) on porous or nonporous subfloors.
3. 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.
4. Allow adhesive to remain open for 10 to 15 minutes or until dry to the touch. Then place the flooring.
5. Roll flooring using a 75-lb. (34.0-kg) or 100-lb. (45.4-kg) roller.

CLEANUP

- While the adhesive is fresh/wet, use water to clean adhesive smudges from the flooring surface and tools.

PROTECTION

- 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	50% to 55%
VOC content (SCAQMD Rule 1168)	< 50 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	3 g per L
Density	9.1 lbs. per U.S. gal. (0.99 g per mL)
Flash point (Tag)	> 201°F (94°C)

Shelf Life and Product Characteristics

Adhesive type	Acrylic latex
Consistency	Liquid
Color	Light blue
Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)

Protect containers from freezing in transit and storage. If frozen, material should not be stirred until it has completely thawed. 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% RH

Working time*	<12 hours
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* Working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

Size
Pail: 1 U.S. gal. (3.79 L)
Pail: 4 U.S. gals. (15.1 L)

Approximate Coverage**

Flooring Type	Typical Application Tool	Coverage at 8 to 10 WFT over porous concrete
Luxury vinyl tile/plank, bio-based tile, vinyl enhanced tile, VCT, solid vinyl sheet flooring, vinyl-backed or poly-olefin-backed carpet tile, or fiberglass-reinforced vinyl sheet flooring	3/8" (10 mm) nap roller	400 sq. ft. (37.2 m ²) per 1 U.S. gal. (3.79 L) 1,600 sq. ft. (149 m ²) per 4 U.S. gals. (15.1 L)

** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

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 (USA) or 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. **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.**

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For the most current product data and BEST-BACKEDSM warranty information,
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