

Ultrabond ECO 975

Standard, Urethane Adhesive for Hardwood Flooring



DESCRIPTION

Ultrabond ECO® 975 is a 100%-solids, one-component, moisture-cured, urethane adhesive specifically designed for the installation of domestic solid and engineered wood flooring.

FEATURES AND BENEFITS

- 100%-solids formulation; moisture-cured and with no solvent added
- Low-odor formula with negligible volatile organic compound (VOC) content
- Easy to trowel with excellent trowel-ridge holdout for proper adhesive bonding

INDUSTRY STANDARDS AND APPROVALS

Green certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- For use with domestic solid and engineered wood flooring of any width and length; finger-block parquet; acrylic impregnated wood and laminated plank; reground rubber underlayments; and cork underlayments
- Interior, residential applications (such as rental apartments, condominiums and homes)
- Interior, commercial applications (such as general office areas, hotel rooms and small retail stores)
- Interior, heavy-commercial applications (such as hotel lobbies, convention centers, airports and department stores)

- Interior, institutional applications (such as hospitals, schools, universities, libraries and government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Not recommended for flooring designed for nail-down installations only
- Not recommended for bamboo flooring or prefinished cork flooring
- Do not apply over any adhesive residues, including cutback adhesive.
- Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. (2.27 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 80% (ASTM F2170).
- Do not install in areas with known hydrostatic moisture problems.
- 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.

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type and other approved wood underlayments (per manufacturer recommendations)
- Concrete at least 28 days old, installed per ASTM F710 guidelines
- Cement terrazzo
- Cement-based, self-leveling underlayments and patching compounds
- Primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- MAPEI's *Mapesonic*[™] RM sound-reduction membrane
- Existing ceramic tile
- MAPEI epoxy moisture barriers
- Concrete treated with a single coat of MAPEI's *Planiseal*[®] PMB polyurethane moisture barrier and bonding agent, which creates a 100% moisture barrier
- Properly installed radiant-heating systems

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.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth.

See the general "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; no mixing is necessary.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Spread *Ultrabond ECO 975* evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.
2. Only apply as much as can be installed over within 30 to 50 minutes.
3. Install wood flooring per the manufacturer's written instructions.
4. Periodically confirm the adhesive transfer to the backing by lifting the flooring material.
5. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

CLEANUP

- *Ultrabond ECO 975* is extremely difficult to remove when cured. Immediately clean any adhesive smudges from tools and the flooring material's surface with *Ultrabond® Urethane Cleaner* while the adhesive is still fresh/wet.

PROTECTION

- Protect from light traffic for 6 hours, and from heavy traffic for 12 hours.

Product Performance Properties

Laboratory Tests	Results
Polymer type	Moisture-curing polyurethane
Solids content	100%
VOCs (Rule #1168 of California's SCAQMD)	15 g per L
Flash point (Tag, closed cup) – ASTM D56	> 212°F (100°C)

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Consistency	Buttery
Color	Tan
Storage temperature range	40°F to 100°F (4°C to 38°C)

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

Flash time*	0 minutes
Working time**	30 to 50 minutes
Adjustability time***	1.5 to 2 hours

* Flash time is the waiting time required before installing flooring.

** Working time is the window of time for the adhesive to accept flooring.

*** Adjustment time is the window of time during which the floor covering can be repositioned without compromising the adhesive's bond.

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

Packaging

Size
Metal pail: 4 U.S. gals. (15.1 L)

Approximate Coverage†

Flooring Type	Typical Trowel	Coverage
Reground rubber and cork underlayments	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm), square-notch	75 to 95 sq. ft. per U.S. gal. (1.84 to 2.33 m ² per L)
Finger-block parquet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), square-notch	50 to 60 sq. ft. per U.S. gal. (1.22 to 1.47 m ² per L)
Wood flooring < 1/2" (12 mm) thick	3/16" x 5/32" (4.5 x 4 mm), V-notch	45 to 55 sq. ft. per U.S. gal. (1.10 to 1.35 m ² per L)
Wood flooring 1/2" to 5/8" (12 to 16 mm) thick	1/8" x 1/4" x 1/4" (3 x 6 x 6 mm), square-notch	40 to 50 sq. ft. per U.S. gal. (0.98 to 1.22 m ² per L)
Wood flooring > 5/8" (16 mm) thick	1/4" x 1/4" x 1/4" (6 x 6 x 6 mm), square-notch	30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m ² per L)

† 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.

RELATED DOCUMENTS

Reference Guide: General "Surface preparation requirements" 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.

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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Edition Date: July 21, 2023 MK 3000075 (22-3282)

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

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