

Ultrabond ECO 980

Premium Urethane Adhesive for Hardwood Flooring



DESCRIPTION

Ultrabond ECO® 980 is a 100%-solids, one-component, moisture-cured urethane adhesive specifically designed for the installation of domestic and exotic solid and engineered wood flooring, including bamboo.

FEATURES AND BENEFITS

- 100%-solids formulation; moisture-cured and with no solvent added
- Durable bond strength for exotic and domestic wood species
- Lifetime bond performance warranty
- Low-odor formula with negligible volatile organic compound (VOC) content
- Formula based on rapidly renewable raw materials
- Easy to trowel with excellent trowel-ridge holdout for proper adhesive bonding
- Can be used with ceramic tile and stone for mixed media installations with wood flooring

WHERE TO USE

- Approved for use with solid and engineered exotic and domestic wood flooring of any width and length; finger block parquet; acrylic impregnated wood and laminated plank; and reground rubber or cork underlayments

- Approved for bonding plywood panels to concrete subfloors as required for nail-down or double-glue installation methods of the final flooring

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 prefinished cork flooring
- Install flooring only in areas recommended by the wood-flooring manufacturer.
- 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 on below-grade or on-grade concrete if a functional vapor barrier is not present below the slab.
- 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%.

SUITABLE SUBSTRATES

- Concrete (at least 28 days old)
- Cement terrazzo
- Exterior-grade plywood and other approved wood substrates (per wood-flooring manufacturer recommendations)
- Existing ceramic tile
- Cement-based self-leveling underlayments and patching compounds
- MAPEI epoxy moisture barriers
- Primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Radiant-heat systems that have been properly installed

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 prevent or reduce adhesion.
- Substrates must be flat to 3/16" in a 10-ft. span (4.5 mm in a 3.05-m span).
- Concrete and cement-based underlayments/patches must be cured and free of any hydrostatic and/or moisture problems.

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; no mixing is necessary.

PRODUCT APPLICATION

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

1. Select the appropriately notched trowel (see the “Approximate Coverage” section below) and spread the adhesive 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 45 minutes.
3. Install wood flooring in strict accordance with the wood-flooring manufacturer’s written instructions.

CLEANUP

- *Ultrabond ECO 980* 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 at least 12 hours. Protect from heavy traffic for at least 24 hours.
- Building owners should become aware of the wood- 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	100%
VOC content (SCAQMD Rule 1168)	< 20 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	7 g per L
Density	13.8 lbs. per U.S. gal. (1.66 g per mL)
Flash point (Tag)	> 200°F (93°C)

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)
Adhesive type	Moisture-cured polyurethane
Consistency	Smooth paste
Color	Tan

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 Characteristics

Wood Flooring	Flash Time *	Working Time **	Adjustability Time ***
At 50°F (10°C) and 80% RH	0 minutes	45 to 60 minutes	2 to 3 hours
At 73°F (23°C) and 50% RH	0 minutes	45 to 60 minutes	2 to 3 hours
At 90°F (32°C) and 20% RH	0 minutes	45 to 60 minutes	4 to 5 hours

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

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

Flash time, working time and adjustability 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) thickness	3/16" x 5/32" (4.5 x 4 mm) saw-tooth	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) thickness	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) thickness	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.

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.**

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

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