



# Ultrabond ECO<sup>®</sup> 960

## Professional Engineered-Wood-Flooring Adhesive



### DESCRIPTION

*Ultrabond ECO 960* is a professional-grade, high-tack, high-solids wood-flooring adhesive specifically designed for the installation of traditional engineered wood floors. Use for the installation of engineered wood plank, acrylic impregnated plank and wood parquet.

### FEATURES AND BENEFITS

- Approved for use with engineered wood flooring up to 5" (12,5 cm) in width; parquet; acrylic impregnated wood and laminated plank; and cork underlayment
- Easy to trowel with excellent trowel-ridge holdout for proper adhesive bonding
- High-solids formulation
- Cleans up with soap and water
- Excellent working time and rebond characteristics

### INDUSTRY STANDARDS AND APPROVALS

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants.....	1 point

\* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

### WHERE TO USE

- Interior residential (rental apartments, condominiums, homes)
- Interior commercial (office buildings, hotel rooms and hallways, restaurant dining areas)

### LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Not recommended for flooring designed for nail-down installations only
- Do not install in areas not 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 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when relative humidity (RH) of the concrete slab exceeds 75% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not use to install solid hardwood or bamboo flooring.



## SUITABLE SUBSTRATES

- Exterior-grade plywood and other approved wood underlayments (per flooring manufacturer's recommendations)
- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Properly prepared and 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.
- 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.
- Surface variation is not to exceed 3/16" in a 10-foot span (4,5 mm in a 3,05-m span) nor 3/32" in a 12-foot span (2,5 mm in a 3,66-m span). Refer to wood-flooring manufacturer's guidelines.
- Concrete and cement-based underlayments and patches must be fully cured and free of any hydrostatic and/or moisture problems.
- Concrete slabs exceeding 3 lbs. (1,36 kg) MVER or 75% RH should be treated with a moisture vapor reduction product. Refer to Technical Data Sheets at [www.mapei.com](http://www.mapei.com) for information on these products.
- Use a moisture meter to check the RH of the wood flooring, surface of the substrate, and general jobsite area. Follow flooring manufacturer's guidelines.
- Refer to MAPEI's Surface Preparation Requirements document for floor-covering installation systems at [www.mapei.com](http://www.mapei.com).

## MIXING

Note: Wear all appropriate personal safety equipment during to use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary.

## PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Select the appropriately notched trowel (see "Approximate Product Coverage" section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. Only apply as much as can be installed within 45 minutes.
5. Install wood flooring in strict accordance with flooring manufacturer's written instructions.

## CLEANUP

- Clean adhesive smudges from the surface of the wood flooring with water while the adhesive is fresh/wet. Use mineral spirits when dry.
- Clean tools with soap and water while the adhesive is still fresh/wet. Use mineral spirits when dry.

## PROTECTION

- Protect from light traffic for at least 24 hours. Protect from heavy traffic for at least 72 hours.
- Building owners should be advised of the wood-flooring manufacturer's guidelines for climate control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation.

## Product Performance Properties

Laboratory Tests	Results
Polymer type	Latex
Percent solids	78% to 82%
VOCs	91 g/L
Odor	Slight latex
Color	Tan
Shelf life	2 years when stored in original packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)
Flash point (Tag)	> 200°F (93°C)

## Application Table

Application Characteristics over Porous and Nonporous Substrates			
Engineered Wood Flooring	Flash Time*	Working Time**	Adjustment Time***
At 73°F (23°C) and 50% humidity	10 to 15 minutes	45 to 60 minutes	2 to 3 hours

\* Flash time: Amount of time recommended for the adhesive to remain exposed to the air following application before the installation of floor covering.

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

\*\*\* Adjustment time: The window of time during which adjustments can still be made to the position of the floor covering without compromising the bond of the adhesive.





Note: Working time and adjustment times vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

## Packaging

Product Code	Size
96064	Plastic pail: 4 U.S. gals. (15,1 L)

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.

## Approximate Product Coverage†

Flooring Type	Typical Trowel	Coverage
Cork underlayment	1/16" x 1/16" x 1/16" (1,5 x 1,5 x 1,5 mm) 	125 to 185 sq. ft. per U.S. gal. (3,06 to 4,53 m² per L)
Finger block parquet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) 	70 to 80 sq. ft. per U.S. gal. (1,71 to 1,96 m² per L)
Engineered wood flooring < 1/2" (12 mm) thick	3/16" x 5/32" (4,5 x 4 mm) 	45 to 55 sq. ft. per U.S. gal. (1,10 to 1,35 m² per L)
Engineered 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) 	40 to 50 sq. ft. per U.S. gal. (0,98 to 1,22 m² per L)

†Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

**RELATED DOCUMENTS**

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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\* At [www.mapei.com](http://www.mapei.com).

Refer to MAPEI's MSDS for specific data related to VOCs, health and safety, and handling of product.

**STATEMENT OF RESPONSIBILITY**

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **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.**

*We proudly support the following industry organizations:*



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