



Ultrabond ECO[®] 995

**Premium
Moisture-Control,
Sound-Reduction and
Wood-Flooring Adhesive**



Clip-on trowel attachment is included in the Ultrabond ECO 995 container.

DESCRIPTION

Ultrabond ECO 995 is MAPEI's premium, 100%-solids, one-component, moisture-curing urethane adhesive for all types of wood flooring and bamboo. *Ultrabond ECO 995* can be used in a single-coat application method that provides a superior bond and moisture vapor emission control on concrete slabs (up to 15 lbs. [6,80 kg] in MVER or 85% relative humidity). *Ultrabond ECO 995* also provides sound-reduction properties, making it suitable for use in multi-unit housing projects. The formulation of *Ultrabond ECO 995* has been developed using rapidly renewable raw materials and provides the ultimate in bonding environmentally sensitive wood flooring.

FEATURES AND BENEFITS

- Moisture barrier, sound reduction and bonding system in a single product
- 100%-solids formulation; no solvent added
- Utilizes rapidly renewable raw materials
- Excellent green strength to hold planks in place during installation
- Extremely low-odor formula with negligible VOC content
- Moisture-control clip-on trowel attachments are affixed inside the bucket under the lid.
- Approved for use with all types of solid hardwood and exotic planks/shorts; parquet; bamboo flooring*; acrylic impregnated wood and laminated plank; cork underlayment; and all sizes of engineered wood flooring
- Approved for use with ceramic tile and stone in mixed media installations using wood flooring

* Consult MAPEI's Technical Services Department for recommendations regarding bamboo.

INDUSTRY STANDARDS AND APPROVALS

LEED Points Contribution

LEED Points

MR Credit 5, Regional Materials**	Up to 2 points
MR Credit 6, Rapidly Renewable Materials	1 point
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)
- Interior heavy commercial (hotel lobbies, convention centers, airports, department stores)
- Interior institutional (hospitals, schools, universities, libraries, 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
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install in areas not recommended by the wood-flooring manufacturer.

- Do not use if 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 an anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 85% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), or when the ambient relative humidity is between 20% and 80%.
- Do not use as a leveling, patching or subfloor repair material.

SUBSTRATE 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.
- Substrates must be flat to 3/16" in a 10-foot span (4,5 mm in a 3,05-meter span). Refer to wood-flooring manufacturer's guidelines.
- Concrete and cement-based underlayment and patches must be fully cured and free of any hydrostatic and/or moisture problems.
- Use anhydrous calcium chloride tests to determine MVERs according to ASTM F1869 or use moisture probe tests to determine RH according to ASTM F2170.
- Concrete slabs exceeding 15 lbs. (6,80 kg) MVER or 85% RH should be treated with a moisture vapor reduction product. Refer to Technical Data Sheets at 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 the flooring manufacturer's guidelines.

MIXING

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

- Ready to use; no mixing is necessary

SUITABLE SUBSTRATES

- Concrete and properly prepared cement terrazzo
- Existing, properly prepared ceramic tile
- Exterior-approved, cement-based patching compounds

Refer to MAPEI's "Surface Preparation Requirements" reference guide RGF0409 for floor-covering installation systems at www.mapei.com.

PRODUCT APPLICATION

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

1. Read all installation instructions thoroughly before installation.
2. Remove the two special clip-on trowel attachments found inside the bucket of *Ultrabond ECO 995* and select the appropriate one for the flooring to be installed. For wood flooring between 3/8" and 3/4" (10 and 19 mm) in thickness, use the clip measuring 3/8" x 3/16" x 3/8" x 1/16" (10 x 4,5 x 10 x 1,5 mm). For wood flooring less than 3/8" (10 mm), in thickness, use the clip measuring 1/8" x 1/8" x 1/8" x 1/16" (3 x 3 x 3 x 1,5 mm).
3. Using the trowel's flat side, key *Ultrabond ECO 995* into the subfloor, creating a smooth void-free surface.
4. Once the adhesive has been keyed in, immediately spread *Ultrabond ECO 995* using the special clip-on trowel attachment. Trowel ridge lines should be perpendicular to the wood-flooring installation direction. Hold the trowel at a 60° to 90° angle to the subfloor, making sure that the subfloor is covered 100% with adhesive and that no void spots appear other than the "valley bottoms" created by the trowel. These areas will fill in as the wood is installed.
5. Only apply as much as can be installed within 45 minutes.
6. Install wood flooring in strict accordance with the flooring manufacturer's written instructions.
7. Install flooring immediately, pressing firmly into the adhesive bed to ensure that all ridges are compressed into a monolithic layer. Periodically check for 100% coverage over the subfloor and transfer to the back of the flooring.

Note: Use fresh clip-on trowel attachments for each bucket of *Ultrabond ECO 995* used. Do not reuse clip-on trowel attachments. Proper coverage is paramount for warranty coverage.

CLEANUP

1. Immediately clean any adhesive smudges from the flooring material's surface with *Ultrabond® Urethane Cleaner* while the adhesive is still fresh/wet.

Note: *Ultrabond ECO 995* is extremely difficult to remove when cured.

2. Immediately clean tools 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 be advised 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
Polymer type	Polyurethane
Percent solids	100%
VOCs (Rule #1168 of California's SCAQMD)	< 20 g/L
Odor	Light and sweet
Trowelability	Easy
Density	14 lbs. per U.S. gal. (1,69 g per mL)
Consistency	Smooth paste
Color	Off-white
Shelf life	1 year 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)

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.

ASTM Standards for Sound Reduction; MAPEI Corporation and MAPEI Inc. certify that the following sound tests (for tile and wood flooring) were conducted and results supplied by NGC Testing Services, Buffalo, NY.

Sound-Reduction Ratings – Engineered Wood ¹ 3/8" (10 mm) Thick Over 6" (15 cm) Concrete Slab ²		
ASTM Test Method	No Suspended Ceiling	Suspended Gypsum Ceiling
ASTM E90-09/E413-04 (STC) – Airborne sound	50 (NGC Test No: 5010020)	67 (NGC Test No: 5010019)
ASTM E492-09/E989-09 (IIC) – Impact sound	50 (NGC Test No: 7010034)	68 (NGC Test No: 7010037)
ASTM E2179-03 (Delta IIC) – Impact sound	21 (NGC Test No: 7010035)	N/A

For MAPEI's *Ultrabond ECO 995* wood-flooring adhesive applied with clip-on trowel attachment

¹ 1 layer of 0.371" x 3" (9,4 mm x 76,2 mm) random-length, oak, engineered, prefinished hardwood flooring

² 6" (15 cm) thick reinforced concrete slab; weight is 70 PSF (366,1 kg/m²)

Application Characteristics over Porous and Nonporous Substrates

Engineered Wood Flooring	Flash Time [†]	Working Time ^{††}	Adjustability Time ^{†††}
At 50°F (10°C) and 80% RH	0 minutes	45 to 60 minutes	3 to 4 hours
At 73°F (23°C) and 50% RH	0 minutes	45 to 60 minutes	2 to 3 hours
At 100°F (38°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.

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

Packaging

Product Code	Size
99568	5 U.S. gals. (18,9 L)

Approximate Product Coverage*

Typical Trowel	Coverage
For wood flooring > 3/8" (10 mm) and ≤ 3/4" (19 mm) in thickness: V-notch with lift spacers – 3/8" x 3/16" x 3/8" x 1/16" (10 x 4,5 x 10 x 1,5 mm) 	30 to 40 sq. ft. per U.S. gal. (0,73 to 0,98 m ² per L)
For wood flooring less than ≤ 3/8" (10 mm) in thickness: V-notch with lift spacers – 1/8" x 1/8" x 1/8" x 1/16" (3 x 3 x 3 x 1,5 mm) 	30 to 40 sq. ft. per U.S. gal. (0,73 to 0,98 m ² per L)

* Trowel dimensions are depth/width/space/lift. Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

Ultrabond
ECO® 995



RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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* At 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:



MAPEI Headquarters of the Americas

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
Phone: 1-888-US-MAPEI
(1-888-876-2734)

Technical Services

1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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

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