**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 with moisture vapor emission control on concrete slabs. Ultrabond ECO 995 also provides sound-reduction properties, making it suitable for use in multi-unit housing projects.

**FEATURES AND BENEFITS**

- Moisture barrier, sound reduction and bonding system in a single product
- 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; bamboo; reground rubber underlayments; and cork underlayments
- Approved for bonding plywood panels to concrete subfloors as required for nail-down or double-glue installation methods of the final flooring
- Interior residential (rental apartments, condominiums and homes)
- Interior commercial (office buildings, hotel rooms and hallways, and restaurant dining areas)
- Interior heavy commercial (hotel lobbies, convention centers, airports and department stores)
- Interior institutional (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
- Do not use to install solid hardwood or bamboo flooring below grade.
- Do not install over existing perimeter-bonded, loose-lay vinyl flooring or any other dimensionally unstable flooring.
- Not recommended for prefinished cork flooring
- Install flooring only in areas recommended by the wood-flooring or bamboo manufacturer.
- Do not apply over any adhesive residues, including cutback adhesive.
- Do not install if standing water is observed on the surface of any substrate.
- Do not install in areas with known hydrostatic moisture problems.
- Do not install if the substrate has a glass-like surface.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity (RH) is between 20% and 80%.
- Patch and level with exterior-rated, cement-based products only.

**SUITABLE SUBSTRATES**

- Concrete at least 14 days old, installed per ASTM F710 guidelines
- Cement terrazzo
- Exterior-grade plywood and other approved wood substrates (per wood-flooring manufacturer recommendations). Note: Moisture-barrier properties do not apply to installations over wood underlayments. Install using the Traditional Installation Method detailed in the “Product Application” section below.
- Existing ceramic tile as long as glazed surfaces are abraded
- Exterior-rated, 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. Note: Moisture-barrier properties do not apply
to installations over gypsum underlayments. Install using the Traditional Installation Method detailed in the “Product Application” section below.

- Properly installed radiant-heating systems. Note: Moisture-barrier properties do not apply to installations over radiant-heat systems. Install using the Traditional Installation Method detailed in the “Product Application” section below.

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 with no visible standing water and dry to the touch.
- 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 surfaces must be porous and have a light broom finish. Do not install over extremely smooth, non-porous or glass-like concrete surfaces. If the substrate is glass-like or non-porous, it must be mechanically profiled and prepared by shotblasting, sandblasting, water jetting, scarifying or other engine-approved methods to an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) #2 to #3 standard. Note: Diamond grinding is an approved method for subfloor preparation in small areas that are not accessible by the methods mentioned above.
- Concrete and exterior-rated, cement-based underlayments/patches must be cured and free of any hydrostatic and/or moisture problems.

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 – TRADITIONAL INSTALLATION METHOD (for use over wood, gypsum, radiant-heat floors and other moisture-sensitive substrates)

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 – Traditional Installation Method” chart 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 within 45 to 60 minutes.
3. Install wood flooring in strict accordance with the wood-flooring manufacturer’s written instructions.

PRODUCT APPLICATION – MOISTURE-CONTROL METHOD (for plywood sheets over concrete substrates)

1. Score 3/8” (10 mm) deep kerf cuts every 8” to 10” (20 to 25 cm) on the underside of 4’ x 4’ (1.2 x 1.2 m) or 2’ x 8’ (0.6 x 2.4 m) sheets of 3/4” (19 mm) exterior-grade plywood, using a circular saw per NWFA installation guidelines.
2. Using the 1/8” x 1/8” x 1/8” x 1/16” (3 x 3 x 3 x 1.5 mm) notch trowel, apply the adhesive to the substrate in a smooth, uniform, void-free layer.
3. Set the plywood sheets into the wet adhesive. Ensure 100% coverage and transfer for moisture control.
4. Allow the adhesive to cure for 12 hours before sanding or preparing the plywood sheets to receive flooring.
5. Install flooring to the surface of the prepared plywood by either nailing, stapling or bonding using Ultrabond ECO 995. Do not allow nails or staples to penetrate through the plywood and enter the membrane, as this will void the moisture control warranty.

CLEANUP
- Ultrabond ECO 995 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

<table>
<thead>
<tr>
<th>Laboratory Tests</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive type</td>
<td>Moisture-cured polyurethane</td>
</tr>
<tr>
<td>Solids content</td>
<td>100%</td>
</tr>
<tr>
<td>VOCs (Rule #1168 of California’s SCAQMD)</td>
<td>&lt; 20 g per L</td>
</tr>
<tr>
<td>Density</td>
<td>14 lbs. per U.S. gal. (1.69 g per mL)</td>
</tr>
<tr>
<td>Flash point (Tag)</td>
<td>&gt; 200°F (93°C)</td>
</tr>
<tr>
<td>Perm rate (ASTM E96)</td>
<td>&lt; 0.15 perms</td>
</tr>
</tbody>
</table>

## Shelf Life and Product Characteristics

<table>
<thead>
<tr>
<th>Consistency</th>
<th>Smooth paste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Off white</td>
</tr>
<tr>
<td>Shelf life</td>
<td>1 year when stored in original, unopened packaging at 73°F (23°C)</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>50°F to 90°F (10°C to 32°C)</td>
</tr>
</tbody>
</table>

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 Wood1 3/8” (10 mm) Thick Over 6” (15-cm) Concrete Slab2 |
|-----------------------------------------------|-----------------|-----------------|
| 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             |

Assembly details:
MAPEI’s Ultrabond ECO 995 wood-flooring adhesive applied with clip-on trowel attachment

1 1 layer of 3/8” thick x 3” wide (10 mm x 7.5 cm) random-length, oak, engineered, prefinished hardwood flooring
2 6” (15 cm) thick reinforced concrete slab, weight is 70 psf (366.1 kg per m²)

## Application Properties

<table>
<thead>
<tr>
<th>Engineered Wood Flooring</th>
<th>Flash Time1</th>
<th>Working Time11</th>
<th>Adjustability Time111</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 50°F (10°C) and 80% RH</td>
<td>0 minutes</td>
<td>45 to 60 minutes</td>
<td>2 to 3 hours</td>
</tr>
<tr>
<td>At 73°F (23°C) and 50% RH</td>
<td>0 minutes</td>
<td>45 to 60 minutes</td>
<td>2 to 3 hours</td>
</tr>
<tr>
<td>At 90°F (32°C) and 20% RH</td>
<td>0 minutes</td>
<td>45 to 60 minutes</td>
<td>4 to 5 hours</td>
</tr>
</tbody>
</table>

1 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.
11 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.
111 Adjustability time is the window of time during which the floor covering can be repositioned without compromising the bond of the adhesive. Note: Working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

## Packaging

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal pail, 5 U.S. gals. (18.9 L)</td>
</tr>
</tbody>
</table>

## Approximate Coverage – Moisture-Control Method*

<table>
<thead>
<tr>
<th>Typical Trowel</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>For wood flooring &gt; 3/8” (10 mm) and ≤ 3/4” (19 mm) in thickness: V-notch with lift spacers (included in package) – 3/8” x 3/16” x 3/8” x 1/16” (10 x 4.5 x 10 x 1.5 mm)</td>
<td>30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m² per L)</td>
</tr>
<tr>
<td>For wood flooring less than ≤ 3/8” (10 mm) in thickness: V-notch with lift spacers (included in packaging) – 1/8” x 1/8” x 1/8” x 1/16” (3 x 3 x 3 x 1.5 mm)</td>
<td>30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m² per L)</td>
</tr>
</tbody>
</table>
## Approximate Coverage — Traditional Installation Method *

<table>
<thead>
<tr>
<th>Flooring Type</th>
<th>Typical Trowel</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reground rubber and cork underlays</td>
<td>1/16&quot; x 1/16&quot; x 1/16&quot; (1.5 x 1.5 x 1.5 mm) square-notch</td>
<td>75 to 95 sq. ft. per U.S. gal. (1.84 to 2.33 m² per L)</td>
</tr>
<tr>
<td>Finger block parquet</td>
<td>1/8&quot; x 1/8&quot; x 1/8&quot; (3 x 3 x 3 mm) square-notch</td>
<td>50 to 60 sq. ft. per U.S. gal. (1.22 to 1.47 m² per L)</td>
</tr>
<tr>
<td>Wood flooring, &lt; 1/2&quot; (12 mm) thickness</td>
<td>3/16&quot; x 5/32&quot; (4.5 x 4 mm) V-notch</td>
<td>45 to 55 sq. ft. per U.S. gal. (1.10 to 1.35 m² per L)</td>
</tr>
<tr>
<td>Wood flooring, 1/2&quot; to 5/8&quot; (12 to 16 mm) thickness</td>
<td>1/8&quot; x 1/4&quot; x 1/4&quot; (3 x 6 x 6 mm) square-notch</td>
<td>40 to 50 sq. ft. per U.S. gal. (0.98 to 1.22 m² per L)</td>
</tr>
<tr>
<td>Wood flooring, &gt; 5/8&quot; (16 mm) thickness</td>
<td>1/4&quot; x 1/4&quot; x 1/4&quot; (6 x 6 x 6 mm) square-notch</td>
<td>30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m² per L)</td>
</tr>
</tbody>
</table>

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

Refer to the 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).

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**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.