



Ultrabond 990™

Solvent-Free

One-part urethane wood-flooring adhesive



DESCRIPTION

Ultrabond 990 is a solvent-free, one-component, moisture-curing urethane adhesive specifically designed with easy application and high-performance characteristics.

- Nonslump/trowel-ridge-holding formulation
- Contains no solvents or water
- Low in VOCs
- Virtually no odor
- Elastomeric to allow the natural subtle movements of wood flooring

USES

- For the installation of prefinished, unfinished engineered wood plank
- For the installation of solid hardwood planks or shorts
- For the installation of prefinished or unfinished parquet
- For the installation of acrylic impregnated wood and laminated plank
- For the installation of cork
- For the installation of ceramic tile (residential and light commercial only)

RECOMMENDED SUBSTRATES

- Fully cured concrete

Note: It is recommended that all concrete slabs be tested for moisture. If moisture vapor emission exceeds 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m²) per 24 hours, using the anhydrous calcium chloride test (ASTM F1869-98), this adhesive must not be used.

- Any wood underlayment that is recommended or guaranteed by either the wood underlayment manufacturer or the wood-flooring manufacturer, such as exterior-grade plywood, Group 1, CC type

TECHNICAL NOTES

- For interior installations only
- Do not use when the substrate temperature is below 50°F (10°C) or above 100°F (38°C).
- Follow wood manufacturer's instructions regarding proper conditioning of floor-covering materials. Do not use this adhesive to install any type of wood flooring that the wood manufacturer does not recommend to be "glued" down.
- Do not use adhesive as a leveling or patching material. If patching or leveling of a floor is required prior to the application of this adhesive, use the appropriate MAPEI leveling or patching material as required. Consult MAPEI's Technical Services Department for product recommendations.

- Do not leave unused adhesive in an open container. Cover with a dense, nonporous plastic and close lid tightly.
- Immediately clean adhesive from the wood-flooring surface with a clean, white rag and mineral spirits. Ensure that the mineral spirits does not harm the wood-flooring surface.
- *Ultrabond 990* may be used over radiant-heated flooring systems. Ensure that the effect of these types of systems is understood and that only stable, manufacturer-recommended products are installed.

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

INSTRUCTIONS

1. Surface Preparation

- 1.1 All substrates must be structurally sound, solid, flat (within 3/16" in 10' or 1/8" in 6' [4,5 mm in 3,05 m or 3 mm in 1,83 m]), dry, clean and free of dips, holes, voids, dust, oil, grease, tar, paint, wax, curing agents, primers, sealers and any substance that may prevent or reduce adhesion. See "Surface Preparation Requirements" document for additional details.

2. Mixing

- 2.1 *Ultrabond 990* is ready to use. No mixing is required. Simply open the container and spread.

3. Application

- 3.1 Refer to wood-flooring manufacturer's instructions and industry standards regarding job site, surface preparation, material conditioning and installation.
- 3.2 Wood flooring, adhesive and subfloor should be maintained at room temperature (73°F [23°C]) for a period of 48 hours before, during and after the installation.
- 3.3 Use typical trowel (see "Technical Data") to ensure that adhesive covers at least 95% of the flooring backing. Follow wood-flooring manufacturer's recommendation regarding the proper trowel to use.
- 3.4 Spread adhesive may be installed into using a wet-lay or walk-on method.

Note: Secure starter row by wedging or face nailing.
- 3.5 After placing, press the wood flooring firmly into the adhesive to ensure good contact with the adhesive.
- 3.6 Proper adhesive transfer to the backing should be confirmed periodically by lifting the material.

- 3.7 Leave an appropriate space around the perimeter of the room and stationary objects to allow for wood-flooring expansion as recommended by the wood-flooring manufacturer.
- 3.8 Carefully roll the wood-flooring installation with a roller as specified by the flooring manufacturer. Apply weight to flooring as necessary to ensure proper contact while adhesive is curing.
- 3.9 Complete the installation per the flooring manufacturer's recommendations.
- 3.10 Promptly clean adhesive smudges with mineral spirits while still fresh. Ensure that the finished surface of flooring is not harmed. Adhesive is extremely difficult to remove once cured.
- 3.11 Clean all tools with mineral spirits before the glue sets.

4. Expansion and Control Joints

- 4.1 Provide for expansion and control joints where specified.
- 4.2 Do not cover any expansion joints with adhesive.
- 4.3 Cut wood flooring on both sides along the edges of expansion joints.
- 4.4 Insert the specified compressible bead and sealant for expansion and control joints, according to plans and specifications.

5. Protection

- 5.1 Protect containers from freezing in transit and storage.
- 5.2 Provide heated storage (not lower than 73°F [23°C]) on site and deliver all materials at least 24 hours before work begins.
- 5.3 Light traffic is acceptable in 8 to 12 hours. Adhesive is fully cured in 24 hours.
- 5.4 To reseal container, fully cover adhesive with plastic and then tightly reseal the lid.

TECHNICAL DATA

Service temperature -40°F (-40°C) to 150°F (66°C)

Application temperature 50°F (10°C) to 100°F (38°C)

Temperature	Relative Humidity	Open Time
73°F (23°C)	50%	2 hours, 30 minutes
50°F (10°C)	80%	3 hours, 30 minutes
100°F (38°C)	20%	4 hours, 15 minutes

Flash point > 200°F (> 93°C)

Maximum moisture vapor emission of the concrete

(ASTM F1869-98) 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m²) per 24 hours

Setting time (Cure)..... Ready for light foot traffic in 8 to 12 hours, heavier traffic once cured. Temperature and humidity will affect the cure rate; the higher the temperature and humidity, the faster the cure. Typically this adhesive cures in 24 hours at 73°F (23°C) and 40% humidity.

Cleanability With mineral spirits when fresh; extremely difficult when cured

Color Beige

Consistency Creamy and easy to spread

VOC 47 g/L

Weight 12.4 lbs./U.S. gal. (1,5 kg/L)

Shelf life..... 12 months when stored in original unopened container at room temperature (73°F [23°C]) in a dry area

Health and safety Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

PACKAGING

Metal pails: 3.5 U.S. gals. (13,2 L); 5 U.S. gals. (18,9 L)

TYPICAL TROWELS AND APPROXIMATE COVERAGES*

Finger block parquet:

1/8" x 1/8" x 1/8" 70 to 80 sq. ft./U.S. gal.
(3 x 3 x 3 mm) (1,71 m² to 1,96 m²/L)



3- or 5-ply engineered plank:

3/16" x 5/32" 45 to 55 sq. ft./U.S. gal.
(4,5 x 4 mm) (1,10 m² to 1,35 m²/L)



1/4" x 3/16" x 1/2" 40 to 45 sq. ft./U.S. gal.
(6 x 4,5 x 12 mm) (0,98 m² to 1,10 m²/L)



Solid plank (up to 3/8" [10 mm] thick):

1/4" x 1/4" x 1/4" 30 to 40 sq. ft./U.S. gal.
(6 x 6 x 6 mm) (0,74 m² to 0,98 m²/L)



1/4" x 3/16" x 1/2" 40 to 45 sq. ft./U.S. gal.
(6 x 4,5 x 12 mm) (0,98 m² to 1,10 m²/L)



* Trowel dimensions are depth/width/space. Quantities shown are approximate and given for estimating purposes only. Actual job-site coverage may vary according to substrate conditions, type of trowel used and setting practices..

**Ultrabond
990**

NOTICE

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.

MAPEI

Headquarters of the Americas

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
Phone: (954) 246-8888
Fax: (954) 246-8800

Customer Service

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

Technical Services

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

1-800-361-9309 (Canada)

Additional Information

Website: www.mapei.com

MAPEI – USA

Ft. Lauderdale, Florida
Fredericksburg, Virginia
Garland, Texas
San Bernardino, California
South River, New Jersey
Tempe, Arizona
West Chicago, Illinois

MAPEI – Canada

Laval, Quebec
Delta, British Columbia
Brampton, Ontario

MAPEI – Argentina

Buenos Aires

MAPEI – Puerto Rico

Dorado

MAPEI – Venezuela

Caracas

For the most current
product data, visit
www.mapei.com.



PR4587 990D_G05EvP
© 2005 MAPEI Corporation. All Rights Reserved.
Printed in the USA