

Ultrabond ECO 987

Modified-Silane-Based, Moisture- Control and Sound-Reduction Wood-Flooring Adhesive



DESCRIPTION

Ultrabond ECO 987 is a thixotropic, modified-silane-based, moisture-control and sound-reduction wood-flooring adhesive. Its unique formulation provides superior trowel-ridge holdout for better transfer to flooring during installation.

FEATURES AND BENEFITS

- Moisture control, sound reduction and bonding system in a single product
- 100%-solids formulation; moisture-cured and with no solvent added
- Excellent trowel-ridge holdout for proper adhesive bonding
- No moisture testing required

For more information, contact your MAPEI representative or visit www.mapei.com.



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PRODUCT PERFORMANCE PROPERTIES

Laboratory Tests	Results
Adhesive type	Moisture-cured hybrid polymer
Solids content	100%
VOCs (Rule #1168 of California's SCAQMD)	< 20 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	15 g per L
Density	1.63 lbs. per U.S. gal. (1.62 g per ml)
Flash point (Tag)	> 200°F (93°C)
Perm rate – ASTM E96	< 0.15 perms

SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Consistency	Smooth paste
Color	Tan
Storage conditions	50°F to 90°F (10°C to 32°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 5/8" (16 mm) Thick Over 6" (15-cm) Concrete Slab

Flooring Type	No Suspended Ceiling	Suspended Gypsum Ceiling
ASTM E90-09/E413-04 (STC) – Airborne sound	50	61
ASTM E492-09/E989-09 (IIC) – Impact sound	48	65
ASTM E2179-03 (Delta IIC) – Impact sound	19	

APPLICATION PROPERTIES

Wood Flooring	Flash Time*	Working Time**	Adjustability Time***
At 50°F (10°C) and 80% RH	0 minutes	75 to 140 minutes	3 to 4 hours
At 73°F (23°C) and 50% RH	0 minutes	60 to 120 minutes	2 to 3 hours
At 90°F (32°C) and 20% RH	0 minutes	45 to 90 minutes	1 to 3 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

Size

Plastic pail: 4 U.S. gals. (15.1 L)

APPROXIMATE COVERAGE

Moisture-Control Method

Typical Trowel	Coverage
For wood flooring > 3/8" (10 mm) and ≤ 3/4" (19 mm) in thickness:	

V-notch with lift spacers (included in packaging) – 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)
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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)	30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m ² per L)
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APPROXIMATE COVERAGE

Traditional Installation Method

Flooring Type	Typical Trowel	Coverage
Cork underlayments	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm), square-notch	125 to 185 sq. ft. per U.S. gal. (3.06 to 4.53 m ² per L)
Finger block parquet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), square-notch	70 to 80 sq. ft. per U.S. gal. (1.71 to 1.96 m ² per L)
Wood flooring, < 1/2" (12 mm) in thickness	3/16" x 5/32" (4.5 x 4 mm), V-notch	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) in 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) in 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)