

Ultrabond ECO 350

Professional, Solid Vinyl Flooring Adhesive



DESCRIPTION

Ultrabond ECO® 350 is a proprietary formulation based on a MAPEI acrylic polymer. It offers the unique flexibility of installing floor coverings after a short flash time or once the adhesive exhibits pressure-sensitive characteristics. Easy to apply and low in odor, *Ultrabond ECO 350* is perfectly suited for the installation of flooring in occupied environments.

FEATURES AND BENEFITS

- Transitional pressure-sensitive installation method for fast, secure grab and bond
- Plasticizer migration resistant for use with all solid vinyl flooring
- Easy trowelability for quick installations

INDUSTRY STANDARDS AND APPROVALS

- RFCI IP #1, Recommended Installation Practice for Homogeneous Sheet Flooring
- RFCI IP #2, Recommended Installation Practice for Vinyl Composition Tile (VCT)
- CRI #104, Standard for Installation Specification of Commercial Carpet

WHERE TO USE

- For the installation of solid vinyl sheet, solid vinyl plank, solid vinyl tile, solid vinyl-backed carpet, homogeneous PVC and vinyl composition tile (VCT)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of concrete slabs exceeds 80% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient RH is between 20% and 80%.
- Do not use to install flooring materials with known dimensional stability issues.
- Do not install unless the temperature of the prepared concrete slab is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point to avoid condensation.

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Embossing levelers applied over existing and fully bonded ceramic tile, sheet vinyl (one layer only) and VCT (one layer only)
- Properly primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- 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.
- The 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. All surfaces must be level, flat and smooth.

See the "Surface preparation requirements: Resilient/carpet adhesives" 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

Read all installation instructions thoroughly before installation.

1. Select the appropriately notched trowel (see the "Approximate Coverage" chart below).
2. Spread adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.
3. For flash time and working time, refer to the "Application Properties" chart below.
4. Install flooring per the flooring manufacturer's instructions.
5. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

CLEANUP

- Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet.
- Clean tools with water while the adhesive is still fresh/wet. Clean with mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.

Product Performance Properties

Laboratory Tests	Results
Solids content	60% to 75%
Density	10 lbs. per U.S. gal., +/- 0.8 (1.2 g per mL, +/- 0.1)
pH	6 to 9
Flash point (ASTM D56)	> 212°F (100°C)
VOC content (SCAQMD Rule 1168)	< 50 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	15 g per L

Shelf Life and Product Characteristics

before mixing

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Composition	Vinyl acrylic polymer

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.

Application Properties

at 73°F (23°C) and 50% RH

General Characteristics		
Trowelability	Light	
Consistency	Buttery	
Color	Off-white	
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic	
Application Characteristics over Porous Substrates		
	Flash time*	Working time**
Solid vinyl sheet	15 minutes	1 hour
Solid vinyl tile and plank, and VCT	15 minutes or until dry to touch	2 hours
Vinyl-backed carpet	15 minutes	1 hour
Application Characteristics over Nonporous Substrates		
	Flash time*	Working time**
Solid vinyl sheet	25 minutes	2 hours
Solid vinyl tile and plank, and VCT	25 minutes or until dry to touch	2 hours
Vinyl-backed carpet	25 minutes	2 hours

* Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a 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.

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

Packaging

Size
Pail: 1 U.S. qt. (946 mL)
Pail: 1 U.S. gal. (3.79 L)
Pail: 4 U.S. gals. (15.1 L)

Approximate Coverage***

Flooring Type	Typical Trowel	Coverage
Solid vinyl sheet, solid vinyl tile, solid vinyl plank and VCT	1/32" x 1/16" x 1/32" (1 x 1.5 x 1 mm), U-notch	185 to 245 sq. ft. per U.S. gal. (4.53 to 6.0 m ² per L)
	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)
Vinyl-backed carpet	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)

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

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements: Resilient/carpet adhesives"[†]

[†] At www.mapei.com

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (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-durabilite@mapei.com.

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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.**

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Edition Date: September 18, 2025 MK 3000225 (25-2022)

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

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