



Ultrabond ECO[®] 360

Premium High-Performance Adhesive for Solid Vinyl Sheet, Tile and Plank



DESCRIPTION

Ultrabond ECO 360 is a proprietary, high-performance, wet-lay and pressure-sensitive adhesive designed specifically for installing homogeneous and heterogeneous solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, it is ideal for commercial and institutional applications. Ultrabond ECO 360 has an excellent open time, develops strength quickly, performs well under rolling loads and resists indentation. Its low volatile organic content makes it ideal for use in occupied buildings such as hospitals and medical centers.

FEATURES AND BENEFITS

- Excellent indentation and shrinkage resistance
- Plasticizer migration resistant for use with all solid vinyl flooring
- Easy trowelability for quick installation

INDUSTRY STANDARDS AND APPROVALS

- CRI Green Label Plus #GLP12617. Refer to CRI website at www.carpet-rug.org for additional information.
- RFCI IP #1, Recommended Installation Practice for Homogeneous Sheet Flooring

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials*	Up to 2 points
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

- For the installation of homogeneous sheet vinyl (solid PVC sheet flooring), luxury vinyl tile (solid PVC tile) and vinyl plank
- Interior residential (rental apartments, condominiums, houses)
- Interior commercial (office buildings, cafeterias)
- Interior heavy commercial (shopping malls, grocery stores, department stores)
- Interior institutional (hospitals, schools, universities, libraries, government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Do not use to install nonporous floor coverings over nonporous surfaces.
- Do not apply over any adhesive residues including cutback adhesive.
- 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 relative humidity 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).



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, properly prepared and fully bonded ceramic tile and fully bonded vinyl composition tile (VCT) – one layer only
- Properly prepared and 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.
- 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, even, flat and smooth.

MIXING

- Ready to use; no mixing necessary

Note: Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for more information.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Select the appropriately notched trowel (see "Approximate Product Coverage" section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. For working time and flash time, refer to "Application Table."
5. Install flooring per the flooring manufacturer's instructions.
6. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

CLEANUP

1. Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet.
2. 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
Polymer type	Vinyl acrylic
Percent solids	55% to 65%
VOCs (Rule #1168 of California's SCAQMD)	Less than 34 g per L
pH	7 to 9
Trowelability	Light
Density	8.3 lbs. per U.S. gal. (3,77 kg per 3,79 L), +/- 0.8 1.0 g/mL (+/- 0.1)
Consistency	Creamy
Color	Off-white
Shelf life	2 years when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Flash point (ASTM D56)	> 212°F (100°C)
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic

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 Tables

Application Characteristics over Porous Substrates		
	Flash Time [†]	Working Time ^{††}
Solid vinyl sheet	0 to 15 minutes	30 to 60 minutes
Vinyl tile	15 to 30 minutes or until dry to touch	2 hours
Vinyl plank	15 to 30 minutes or until dry to touch	2 hours

[†] Flash time is the waiting time required before installing flooring.

^{††} Working time is the window of time for the adhesive to accept flooring.

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

Packaging

Product Code	Size
93664	4 U.S. gals. (15,1 L)
93653	1 U.S. gal. (3,79 L)

Approximate Product Coverage*

Flooring Type	Typical Trowel	Coverage
Vinyl sheet, tile and plank	1/32" x 1/16" x 1/32" (1 x 1,5 x 1 mm) 	185 to 245 sq. ft. per U.S. gal. (4,53 to 6,0 m ² per L)

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

Ultrabond ECO 360



RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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* At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

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 or 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.**

We proudly support the following industry organizations:



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