



Ultrabond ECO 811

Universal Carpet Tile Adhesive



DESCRIPTION

Ultrabond ECO 811 provides an enhanced, aggressive tack for installing all types of carpet tile. Ultrabond ECO 811 provides a secure, releasable adhesive base for standard PVC-backed carpet tile as well as for non-PVC-, polyolefin-, felt- and bituminous-backed carpet tile. It can also be used to bond fiberglass-reinforced vinyl sheet flooring.

FEATURES AND BENEFITS

- Unique formulation provides aggressive tack for all carpet tile types
- Permanent or releasable installation system applications

INDUSTRY STANDARDS AND APPROVALS

LEED v4 Points Contribution

LEED Points

Health Product Declaration (HPD)*Up to 2 points

* Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.

Additional Green Certifications

- CRI Green Label Plus #GLP25190. Refer to the CRI's Website at www.carpet-rug.org for additional information.
- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- For the installation of all types of carpet tile and carpet underlayment used in releasable double glue-down carpet applications (underlayment-to-floor only)

- For the installation of fiberglass-reinforced vinyl sheet flooring
- Interior residential (rental apartments, condominiums and homes)
- Interior commercial (office buildings, hotel rooms/hallways and restaurant dining areas)
- Interior institutional (hospitals, schools, universities, libraries and government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install when the moisture vapor emission rate (MVER) exceeds 10 lbs. per 1,000 sq. ft. (4,54 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 95% per ASTM F2170.
- Do not install if the pH of the concrete slab exceeds 11.
- 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 sheet vinyl
- A single layer of properly prepared, fully bonded vinyl composition tile (VCT)
- Properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Properly installed MAPEI moisture barrier products

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

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. Install flooring in strict accordance with the flooring manufacturer's written instructions.

1. Select the appropriate notched trowel (see "Approximate Coverage" section).
2. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle.
3. Roll flooring with the recommended-weight roller across the width and length of the flooring surface.
4. For fiberglass-reinforced vinyl sheet flooring, spread adhesive evenly over the subfloor using a 1/4" (6 mm) nap paint roller. For permanent installations, install flooring into wet adhesive. For releasable applications and for the installation of fiberglass-reinforced vinyl sheet flooring, allow adhesive to dry to its tacky phase.

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
Polymer type	Acrylic polymer
Solids content	40% to 60%
VOCs (Rule #1168 of California's SCAQMD)	< 40 g per L
VOCs (Section 01350 of California's CDPH)	Passed
pH	6 to 9
Density	8.3 lbs. per U.S. gal. (1,0 g per mL)
Color	Green
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)
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 Properties

Application	Characteristics over Porous Substrates	
	Flash time [†]	Working time ^{††}
Smooth-backed carpet tile and fiberglass-reinforced vinyl sheet flooring	0 (permanent bond); 30 minutes or until dry (pressure-sensitive)	15 minutes (permanent bond); 8 hours (pressure-sensitive)
Rough-backed carpet tile and carpet underlayment to substrate	0 (permanent bond); 30 minutes or until dry (pressure-sensitive)	15 minutes (permanent bond); 8 hours (pressure-sensitive)

Application	Characteristics over Nonporous Substrates	
	Flash time [†]	Working time ^{††}
Smooth-backed carpet tile and fiberglass-reinforced vinyl sheet flooring	30 minutes or until dry (pressure-sensitive)	8 hours (pressure-sensitive)
Rough-backed carpet tile and carpet underlayment to substrate	30 minutes or until dry (pressure-sensitive)	8 hours (pressure-sensitive)

[†] 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

Size
Pail: 1 U.S. gal. (3,79 L)
Pail: 4 U.S. gals. (15,1 L)
Pail: 5 U.S. gals. (18,9 L), Canada only

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Approximate Coverage*

Flooring Type	Typical Trowel	Coverage		
		Per 1 U.S. gal. (3,79 L)	Per 4 U.S. gals. (15,1 L)	Per 5 U.S. gals. (18,9 L)
Smooth-backed flooring products	1/32" x 1/16" x 1/32" (1 x 1,5 x 1 mm), U-notch	185 to 245 sq. ft. (17,2 to 22,8 m ²)	740 to 980 sq. ft. (68,7 to 91,0 m ²)	925 to 1,225 sq. ft. (85,9 to 114 m ²)
Rough-backed flooring products and carpet underlayment to substrate	1/16" x 1/16" x 1/16" (1,5 x 1,5 x 1,5 mm), square-notch	125 to 185 sq. ft. (11,6 to 17,2 m ²)	500 to 740 sq. ft. (46,5 to 68,7 m ²)	625 to 925 sq. ft. (58,1 to 85,9 m ²)

* 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.

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.**

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