



# Ultrabond ECO<sup>®</sup> 810

## Professional Carpet Tile Adhesive



### DESCRIPTION

*Ultrabond ECO 810* provides quick drying times and an enhanced, aggressive tack for fast-track vinyl-backed carpet tile installations. Flooring can be installed into *Ultrabond ECO 810* in its wet state for permanent bonding. *Ultrabond ECO 810* can also be allowed to dry to its tacky phase for releasable installations. Install *Ultrabond ECO 810* by spray, roller or trowel, depending on the installation application. This adhesive is suitable for use over fresh concrete slabs with diminishing moisture vapor emission rates (MVERs) up to 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m<sup>2</sup>) per 24 hours and 90% relative humidity.

### FEATURES AND BENEFITS

- Aggressive tack to hold carpet tile and fiberglass-reinforced vinyl sheet flooring in place during installation and use
- Permanent or releasable installation system applications
- Acrylic-based for superior plasticizer migration resistance
- High moisture resistance – for moisture vapor emission rates (MVERs) up to 8 lbs. (3,63 kg)
- New lower-odor formula for use in occupied buildings
- CRI Green Label Plus certified

### INDUSTRY STANDARDS AND APPROVALS

- CRI #104, Standard for Installation Specification of Commercial Carpet
- CRI #105, Standard for Installation of Residential Carpet

#### LEED Points Contribution

#### LEED Points

MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants .....	1 point
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems .....	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 carpet tile, vinyl-backed tile, solid vinyl tile and carpet undercushion pads in a double glue-down application
- For the installation of fiberglass-reinforced vinyl sheet flooring
- Interior residential (rental apartments, condominiums, homes)
- Interior commercial (office buildings, hotel rooms and hallways, restaurant dining areas)
- Interior institutional (hospitals, schools, universities, libraries, 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 MVER exceeds 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when relative humidity of concrete slabs exceeds 90% per (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 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 *Planiseal*<sup>™</sup> EMB epoxy moisture barrier

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

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary.

## PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Select the appropriate notched trowel (see "Approximate Product Coverage" section).
3. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45° angle.
4. Roll flooring with the recommended-weight roller across the width and length of the flooring surface.
5. 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.
6. Install flooring in strict accordance with flooring manufacturer's written instructions.

## 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	Acrylic polymer
Percent solids	40% to 60%
VOCs (Rule #1168 of California's SCAQMD)	19 g per L
pH	6 to 9
Trowelability	Light
Density	8.3 lbs. per U.S. gal. (3,77 kg per 3,79 L), (+/- 0,8); 1.0 g per L (+/- 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 Table

Application Characteristics over Porous Substrates		
	Flash Time†	Working Time††
Smooth-backed vinyl 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 vinyl products and carpet pad 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†	Working Time††
Smooth-backed vinyl carpet tile and fiberglass-reinforced vinyl sheet flooring	30 minutes or until dry (pressure-sensitive)	8 hours (pressure-sensitive)
Rough-backed vinyl products and carpet pad 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.

## Approximate Product Coverages\*

Flooring Type	Typical Trowel	Coverage*
Smooth-backed vinyl products	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 m² per L)
Rough-backed vinyl products and carpet pad to substrate	1/16" x 1/16" x 1/16" (1,5 x 1,5 x 1,5 mm) 	125 to 185 sq. ft. per U.S. gal. (3,06 to 4,53 m² per L)
Smooth-backed vinyl carpet tile and fiberglass-reinforced vinyl sheet flooring	1/4" (6 mm) nap roller or spray-applied	250 to 350 sq. ft. per U.S. gal. (6,12 to 8,57 m² 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 810**



Product Code	Size
98053000	1 U.S. gal. (3,79 L)
98164	4 U.S. gals. (15,1 L)
96880000	5 U.S. gals. (18,9 L)



## RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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\* At [www.mapei.com](http://www.mapei.com).

Refer to MAPEI's MSDS for specific data related to VOCs, health and safety, and handling of product.

## STATEMENT OF RESPONSIBILITY

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.**

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