



# Ultrabond ECO<sup>®</sup> 120

## Professional Flooring Adhesive



### DESCRIPTION

Ultrabond ECO 120 is designed for the mainstream installations of most broadloom carpet and felt-backed sheet flooring. Competitively priced, Ultrabond ECO 120 delivers both value and performance. Its formulation has been specifically crafted to provide ample working time for carpets with patterns as well as for the positioning of felt-backed vinyl sheet flooring.

### FEATURES AND BENEFITS

- Mid-range solids level for a more durable bond
- Ample working time for placement of felt-backed sheet flooring
- Ample working time for alignment of patterned carpets
- New lower-odor formula for use in occupied buildings
- CRI Green Label Plus certified

### INDUSTRY STANDARDS AND APPROVALS

- CRI Green Label Plus #GLP84381. Refer to CRI website at [www.carpet-rug.org](http://www.carpet-rug.org) for additional information.
- CRI #104, Standard for Installation Specification of Commercial Carpet
- CRI #105, Standard for Installation of Residential Carpet

<u>LEED (Version 3.0) 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
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems .....	1 point

\* Using this MAPEI 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 with jute, polypropylene (ActionBac<sup>®</sup>), latex-foam and sponge-rubber carpet backings; and residential mineral fibrous felt-backed vinyl sheet goods
- Interior residential (rental apartments, condominiums, homes)
- Interior light commercial (general office areas, hotel rooms, small retail stores)

### 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 use to install solid vinyl flooring products.
- Do not use to install vinyl-backed carpet products.
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install when the moisture vapor emission rate (MVER) exceeds 3 lbs. per 1,000 sq. ft. (1,36 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 75% (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 ASTM F2419 requirements for compressive strength

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 MSDS for more information.

## **PRODUCT APPLICATION**

1. Read all installation instructions thoroughly before installation.
2. Select the appropriate 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	SBR emulsion solution
Percent solids	63% to 66%
VOCs (Rule #1168 of California's SCAQMD)	< 50 g/L
pH	9 to 10
Trowelability	Light
Density	9 lbs./gal. (+/- 0.4); 1.1 g/ml (+/- 0.05)
Consistency	Buttery
Color	Light tan
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 (Tag)	> 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†	Working Time††
Felt-backed vinyl sheet flooring	0 to 15 minutes	15 to 35 minutes
Carpet	0 to 15 minutes	15 to 35 minutes

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

**Packaging**

Product Code	Size
99112000	Pail: 1 U.S. qt. (946 mL)
95312000	Pail: 1 U.S. gal. (3,79 L)
91264	Pail: 4 U.S. gals. (15,1 L)
96812000	Pail: 5 U.S. gals. (18,9 L)

**Approximate Product Coverage**

Flooring Type	Typical Trowel	Coverage*
Felt-backed vinyl sheet flooring	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 carpet	1/8" x 1/8" x 1/16" (3 x 3 x 1,5 mm) 	65 to 85 sq. ft. per U.S. gal. (1,59 to 2,08 m² per L)
Rough-backed carpet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) 	85 to 95 sq. ft. per U.S. gal. (2,08 to 2,33 m² per L)

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

# Ultrabond ECO® 120



## 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 Material Safety Data Sheet (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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**For the most current BEST-BACKED™ product data and warranty information, visit [www.mapei.com](http://www.mapei.com).**

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