



Ultrabond ECO[®] 90 Solvent-Free

Economy-grade
flooring adhesive



DESCRIPTION

Ultrabond ECO 90 is an economy-grade multipurpose adhesive with an open time designed for installing carpet. *Ultrabond ECO 90* also works well with felt-backed, sheet-goods flooring.

USES

Use to install carpets with jute, polypropylene (ActionBac[®]), latex-foam and sponge-rubber backings; and residential mineral fibrous felt-backed vinyl sheet goods.

RECOMMENDED SUBSTRATES

- Any wood underlayment that is recommended or guaranteed by either the wood underlayment manufacturer or the floor-covering manufacturer, such as exterior-grade plywood, Group 1, CC type
- Dry concrete
- Noncushioned, embossed vinyl sheet goods flooring, fully adhered and properly leveled using *Planipatch[®]* and *Planipatch Plus[™]* (see Technical Data Sheets for details) for light commercial use only
- Properly prepared cement terrazzo

Note: Test all concrete slabs for moisture. If the Moisture Vapor Emission Rating (MVER) exceeds 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869), this adhesive must not be used.

TECHNICAL NOTES

- Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions before beginning installation.
- Do not install where a moisture problem exists.
- For interior installation only
- Not recommended for the installation of vinyl or rigid rubber-backed floor covering. Instead, use *Ultrabond ECO 300*, *Ultrabond ECO 350*, *Ultrabond[®] G19* or *Ultrabond G21* (see Technical Data Sheets for details).
- Do not use when the substrate temperature is below 50°F (10°C) or above 90°F (32°C), or when relative humidity exceeds 65%.
- Do not apply directly over gypsum-based substrates.
- Do not roll cushion-backed carpeting. Use a carpet core to smooth out floor covering.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.



INSTRUCTIONS

1. Surface Preparation

- 1.1 All subfloors must be structurally sound, solid, well-fastened, dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, loosely bonded toppings, loose particles and any substance or condition that may reduce or prevent adhesion.
- 1.2 See the "Surface Preparation Requirements" document for details.

2. Application

- 2.1 Use a typical notched trowel (see "Technical Data" section) to ensure 100% coverage of the flooring material's backing. Follow the floor-covering manufacturer's recommendation regarding the proper trowel to use.
- 2.2 Install the flooring material into the adhesive while it is still fresh. For nonporous-backed material and stiffer materials with inherent memory, allow 15 to 20 minutes of drying time (or longer if required) for the spread adhesive to tack up before placing flooring material. Proper adhesive transfer to the backing should be confirmed periodically by lifting the flooring material.
- 2.3 To ensure that the backing makes complete contact with the adhesive and to remove trapped air, roll the floor-covering manufacturer's recommended roller across the width and length of the flooring surface.
- 2.4 Complete the installation per the instructions of the floor-covering manufacturer. Follow CRI 104 for commercial applications.
- 2.5 Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh.
- 2.6 Promptly wash hands and tools with water while the adhesive is still fresh.

3. Expansion and Control Joints

- 3.1 Provide for expansion and control joints where specified.
- 3.2 Do not cover any expansion joints with adhesive.
- 3.3 Cut the carpet on both sides along the edges of expansion joints.
- 3.4 Insert the specified compressible bead and sealant for expansion and control joints, according to plans and specifications.

4. Protection

- 4.1 Protect containers from freezing in transit and storage. This product is freeze/thaw-stable at temperatures as low as 0°F (-18°C). However, all water-based products should be protected from freezing. If frozen, material should not be stirred until it has completely thawed.
- 4.2 Provide for heated storage on site and deliver all materials at least 24 hours before work begins.
- 4.3 Restrict traffic for 24 hours to allow proper adhesive setup.

TECHNICAL DATA (based on 73°F [23°C] and 50% relative humidity)

Open time†	20 to 35 minutes
Drying time	24 hours (cure time)
Shelf life.....	2 years when stored in original containers at 73°F (23°C) in a dry, heated area
Freeze/thaw stability as low as 0°F (-18°C)	Stable 5 cycles
Flash point	Nonflammable, solvent-free
Maximum MVER of concrete (ASTM F1869)	3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m ²) per 24 hours
Cleanability	With water while fresh; with mineral spirits when dried
Color	Light beige
Consistency	Buttery
Health and safety.....	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

† Open times vary based on temperature, humidity, substrate, trowel size and job-site conditions.

PACKAGING

Pails: 1 U.S. gal. (3,79 L); 3.96 U.S. gals. (15 L), U.S. only
Pail: 5 U.S. gals. (18,9 L), Canada only

TYPICAL TROWELS AND APPROXIMATE COVERAGES*

Carpet (jute, polypropylene)

1/8" x 1/8" x 1/16"	67 to 77 sq. ft./U.S. gal. (3 x 3 x 1,5 mm)	(1,64 to 1,89 m ² /L)
1/8" x 1/8" x 1/8"	85 to 95 sq. ft./U.S. gal. (3 x 3 x 3 mm)	(2,08 to 2,33 m ² /L)



Felt-Backed Vinyl Sheet Goods

1/32" x 1/16" x 1/32"	185 to 245 sq. ft./U.S. gal. (1 x 1,5 x 1 mm)	(4,53 to 6,0 m ² /L)
1/16" x 1/16" x 1/16"	125 to 185 sq. ft./U.S. gal. (1,5 x 1,5 x 1,5 mm)	(3,06 to 4,53 m ² /L)



* Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual job-site coverages may vary according to substrate conditions, type of trowel used, thickness applied, handling and application procedures.

Ultrabond
ECO® 90

NOTICE

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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Additional Information

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For the most current
product data, visit
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