



Ultrabond ECO[®] 420 Solvent-Free

All-weather outdoor
carpet adhesive



DESCRIPTION

Ultrabond ECO 420 is a high-tack outdoor carpet adhesive with great wet grab. Ultrabond ECO 420 sets rapidly, and can be used indoors and outdoors.

USES

For the interior and exterior installation of outdoor dimensionally stable rubber, polypropylene (ActionBac[®]), and closed-cellular urethane foam-backed carpeting. Contact MAPEI's Technical Services Department for other types of carpeting.

RECOMMENDED SUBSTRATES

- Exterior- and marine-grade plywood
- Dry concrete
- Asphalt paving (clean and well-cured)

TECHNICAL NOTES

- Not recommended for the installation of vinyl or rigid rubber-backed floor covering. Instead, use 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%.
- Not for use over asphalt roofing or treated wood

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 other substance that may prevent or reduce adhesion.
- 1.2 Painted surfaces must be sanded and scarified completely to expose the substrate, using appropriate safety precautions.
- 1.3 See MAPEI'S "Surface Preparation Requirements" document for details.

2. Application

- 2.1 Use the typical notched trowel (see "Technical Data" section) to ensure 100% coverage of the flooring material 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.

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

Open time†	10 to 20 minutes
Drying time	24 hours (cure time)
Shelf life	12 months 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
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)

TYPICAL TROWELS AND APPROXIMATE COVERAGES*

Smooth-Backed Carpet

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 m²/L)



Rough-Backed Carpet

3/16" x 1/8" x 1/8" 40 to 50 sq. ft./U.S. gal.
(4,5 x 3 x 3 mm) (0,98 to 1,22 m²/L)



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

- 2.4 Complete installation per the flooring material manufacturer's instructions.
- 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.

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.

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.

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.**

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

MAPEI

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Additional Information

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For the most current product data,
visit www.mapei.com.

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