



# Ultrabond ECO<sup>®</sup> 420

## Professional Outdoor Carpet Adhesive



### DESCRIPTION

*Ultrabond ECO 420* is MAPEI's long-standing favorite for installing most types of outdoor carpet products. Excellent moisture resistance, freeze/thaw stability and superb bond strength make *Ultrabond ECO 420* the perfect choice for residential and light commercial installations of outdoor carpet. *Ultrabond ECO 420* is easy to trowel and has plenty of working time, even in the warmest installation conditions. Nonflammable and CRI (Green Label Plus certified), *Ultrabond ECO 420* is MAPEI's best recommendation for outdoor carpet installations over concrete, wood and fiberglass.

### FEATURES AND BENEFITS

- Provides a strong, secure bond to outdoor carpet
- Fast-curing and moisture-resistant when dry
- Nonflammable and suitable for use in enclosed spaces
- CRI Green Label Plus certified
- Approved for interior and exterior use with dimensionally stable outdoor rubber, polypropylene (ActionBac) and closed-cellular urethane foam-backed carpeting

### 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

### LEED (Version 3.0) 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 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

- Interior and exterior residential (patios, enclosed porches, balconies, etc.)
- Interior and exterior commercial (miniature golf centers, sporting facilities, restaurant and hotel patios)

### LIMITATIONS

- Do not install over any substrates containing asbestos.
- Contact MAPEI's Technical Services Department for approval of other types of carpeting not listed.
- 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.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not use over asphalt roofing or pressure-treated plywood.



## SUITABLE SUBSTRATES

- Exterior and marine-grade plywood
- Pressure-treated lumber
- Concrete
- Exterior approved patching compounds and concrete repair products
- Cement-based self-leveling underlayments and patching compounds (interior use only)
- Asphalt paving (clean, secure and cured)

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.
- Refer to MAPEI's "Surface Preparation Requirements" document for floor-covering installation systems at [www.mapei.com](http://www.mapei.com).

## 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 porous substrates, install the flooring material into the adhesive while it is still wet. For porous-backed material over nonporous substrates, allow 20 minutes of drying time for the adhesive to build tack before placing flooring material.
5. Install flooring.
6. Periodically confirm adhesive transfer to the backing by lifting the flooring material.
7. 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.
3. Use mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.

## PROTECTION

- Protect from traffic for at least 24 hours.

## Product Performance Properties



Laboratory Tests	Results
Polymer type	SBR
Percent solids	68% to 72%
VOCs (Rule #1168 of California's SCAQMD)	Less than 19 g/L
pH	9 to 10
Viscosity	60,000 to 120,000 cps
Consistency	Buttery
Color	Light tan
Shelf life	2 years
Open time	20 to 30 minutes
Dry time	24 hours
Flash point (Seta flash)	> 212°F (100°C)
Freeze/thaw stability	3 cycles at 10°F (-12°C)

*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.*

## Packaging

Product Code	Size
94291000	1 U.S. qt. (946 mL)
1042002	1 U.S. gal. (3,79 L)
1042001	4 U.S. gals. (15,1 L)

## Approximate Product Coverage

Flooring Type	Typical Trowel	Coverage*
Smooth-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 m <sup>2</sup> per L)
Rough-backed carpet	3/16" x 1/8" x 1/8" (4,5 x 3 x 3 mm) 	40 to 50 sq. ft. per U.S. gal. (0,98 to 1,22 m <sup>2</sup> 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.

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## 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.**

We proudly support the following industry organizations:



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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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