



Ultrabond[®] ECO[®] 20

Standard Flooring Adhesive



DESCRIPTION

Ultrabond ECO 20 has been designed to provide both value and performance in a standard flooring adhesive. Its unique formulation provides ample working time for installing felt-backed vinyl sheet flooring. *Ultrabond ECO 20* also has been designed to install most basic carpet in residential and light commercial applications. *Ultrabond ECO 20* is suitable for installing carpets with ActionBac, jute, latex-foam and sponge-rubber backings. In addition, *Ultrabond ECO 20* is ideally suited for flooring installations that may need removal within 2 to 3 years, such as installations in rental properties as well as main-street commercial and retail outlets.

FEATURES AND BENEFITS

- Value-priced for economical flooring installations
- Extended open time for easy placement of felt-backed sheet flooring
- Low-odor formula for use in occupied buildings
- CRI Green Label Plus certified

INDUSTRY STANDARDS AND APPROVALS

- CRI Green Label Plus #GLP84381
- CRI #104, Standard for Installation Specification of Commercial Carpet
- CRI #105, Standard for Installation of Residential Carpet

LEED v3 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 with jute, polypropylene (ActionBac), latex-foam and sponge-rubber backings; residential mineral fibrous felt-backed vinyl sheet goods; and cork underlayment
- Interior residential applications (such as rental apartments and condominiums)
- Interior light commercial applications (such as general office areas, hotel rooms and 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 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).

- Do not install when the relative humidity (RH) of the concrete slab exceeds 80% (ASTM F2170).
 - Do not install in areas with known hydrostatic moisture problems.
 - Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient RH is between 20% and 80%.
 - Do not install unless the temperature of the prepared concrete slab is at least 5 degrees Fahrenheit (2,8 degrees Celsius) above the dew point to avoid condensation.
3. For porous substrates, install the flooring material into the adhesive while it is still wet. Over nonporous substrates, allow 20 minutes of drying time for the adhesive to tack up before placing flooring material.
 4. Install flooring per the flooring manufacturer's instructions.
 5. Periodically confirm the adhesive transfer to the backing by lifting the flooring material.
 6. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Embossing levelers applied over existing and fully bonded ceramic tile and sheet vinyl
- A single layer of fully bonded vinyl composition tile (VCT)
- 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 properly prepared, 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.

See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Floor Covering Installations Systems page on MAPEI's Website.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- Ready to use; no mixing is necessary.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Select the appropriate notched trowel (see the "Approximate Coverage" chart).
2. Spread adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.

CLEANUP

- Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet.
- Clean tools with water while the adhesive is still fresh/wet.
- Clean with mineral spirits once the adhesive has dried. Use caution with mineral spirits, which may be harmful to some materials.

PROTECTION

- Protect from heavy traffic for at least 24 hours.

Product Performance Properties

Laboratory Tests	Results
Polymer type	Styrene butadiene latex
Solids content	65% to 68%
VOCs (Rule #1168 of California's SCAQMD)	18 g per L
pH	9 to 10
Flash point (Tag closed cup) – ASTM D56	> 212°F (100°C)

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Consistency	Buttery
Color	Light tan
Storage temperature range	40°F to 100°F (4°C to 38°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.

Application Properties

Flash time†	0 to 15 minutes
Working time††	15 to 35 minutes

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

Packaging

Size
Pail: 4 U.S. gals. (15,1 L)
Pail: 5 U.S. gals. (18,9 L)

Approximate 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), square notch 	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), U notch 	65 to 85 sq. ft. per U.S. gal. (1,59 to 2,08 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® 20



RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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* At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

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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MAPEI Headquarters of the Americas

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) /
(954) 246-8888

Technical Services

1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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For the most current **BEST-BACKED™** product data and warranty information, visit www.mapei.com.

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