

Ultrabond ECO 220

Premium Flooring Adhesive



DESCRIPTION

Ultrabond ECO[®] 220 is a high-solids, latex-based adhesive designed specifically for installing carpet and felt-backed vinyl sheet flooring. Its unique formulation is perfectly suited for commercial flooring applications where heavy traffic is expected. *Ultrabond ECO* 220 also exhibits an extended working time, making it ideal for the installation of patterned carpets. It may be used in both direct and double glue-down installation methods for carpet.

FEATURES AND BENEFITS

- High solids for excellent bond and shear strength
- Ample working time for the alignment of patterned carpets
- High moisture resistance
- Low-odor formula for use in occupied buildings

INDUSTRY STANDARDS AND APPROVALS

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.
- CRI #104, Standard for Installation Specification of Commercial Carpet
- CRI #105, Standard for Installation of Residential Carpet

WHERE TO USE

- For the installation of carpet with hot-melt (Unibond), urethane unitary, needle-punched, woven, closed-cellular urethane foam, Enhancer, jute, polypropylene (ActionBac), latex-unitary, latex-foam and sponge-rubber backings
- For the installation of mineral, fibrous and felt-backed vinyl sheet goods as well as linoleum

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 8 lbs. per 1,000 sq. ft. (3.63 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 90% (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.

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.
- The 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 the “Surface preparation requirements: Resilient/carpet adhesives” reference guide in the Floor Covering Installation Systems section of MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. 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. Spread adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.
2. 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.
3. Install flooring per the flooring manufacturer's written instructions.
4. Periodically confirm the adhesive transfer to the backing by lifting the flooring material.
5. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

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.
- If the adhesive has dried, clean with mineral spirits. Use caution with mineral spirits, which may be harmful to some materials.

PROTECTION

- Protect from light traffic for 24 hours, and from heavy traffic for 72 hours.

Product Performance Properties

Laboratory Tests	Results
Polymer type	Styrene butadiene latex
Solids content	70% to 75%
VOCs (Rule #1168 of California’s SCAQMD)	12 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	Off-white
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 recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

** Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

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

Packaging

Size
Pail: 4 U.S. gals. (15.1 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 m ² 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 m ² per L)
Rough-backed carpet and double-stick applications	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), U-notch	85 to 95 sq. ft. per U.S. gal. (2.08 to 2.33 m ² per L)

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

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for floor-covering installation systems†

†At www.mapei.com

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability-durabilite@mapei.com.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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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