

Ultrabond ECO 222

Cork Underlayment Adhesive



DESCRIPTION

Ultrabond ECO® 222 is a standard, high-tack, latex-based adhesive that is designed for the installation of cork underlayment that is used for sound dampening under tile and stone. *Ultrabond ECO* 222 can also be used to install felt-backed vinyl sheet flooring and ActionBac carpet.

FEATURES AND BENEFITS

- Quick tack development
- Permanent bond

WHERE TO USE

- For the installation of roll and sheet cork underlayment, felt-backed vinyl sheet flooring and ActionBac carpet

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations on floors 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 use to install prefinished cork tile or cork flooring.
- Do not use as an adhesive to install ceramic or porcelain tile.

- Do not use to install cork underlayment that will be bonded under wood flooring. Use the same adhesive to bond the cork underlayment as the one that is used to bond the wood flooring to the cork.
- 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 of concrete slabs exceeds 80% (ASTM F2170) or the ambient relative humidity exceeds 65%.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not install unless the surface temperature of the substrate is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point.

SUITABLE SUBSTRATES

- APA Group 1 exterior-grade plywood (dry conditions only)
- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- Radiant-heat systems that have been properly installed and that are maintained at a maximum of 85°F (29°C) surface temperature.

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, and any other substance or condition that may prevent or reduce adhesion.

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. Select the appropriate notched trowel (see the "Approximate Coverage" section below).
2. Spread adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the subfloor.
3. For porous substrates, install the flooring material into the adhesive while it is still wet. For cork underlayments and other porous-backed material over nonporous substrates, allow 20 minutes of drying time for the adhesive to build tack before placing cork underlayment/vinyl sheet flooring material.
4. Install underlayment/flooring.
5. Periodically confirm adhesive transfer to the cork by lifting the underlayment/flooring material.

6. Roll the underlayment/flooring with the recommended-weight roller across the width and length of the underlayment/flooring surface.

CLEANUP

- Promptly use water to clean any adhesive smudges from tools and the underlayment/flooring material's surface while the adhesive is still fresh/wet.

PROTECTION

- Protect from foot traffic for at least 24 hours.

Product Performance Properties

Laboratory Tests	Results
Solids content	65% to 68%
pH	9 to 10
Viscosity	70,000 to 120,000 cps
Flash point (Seta flash)	> 212°F (100°C)
Freeze/thaw stability	0 cycle
VOC content (SCAQMD Rule 1168)	< 50 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	18 g per L

Shelf Life and Product Characteristics

Laboratory Tests	Results
Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Polymer type	Styrene butadiene latex
Consistency	Buttery
Color	Light tan

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

at 73°F (23°C) and 50% relative humidity

Open time	30 to 45 minutes
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Drying time	24 hours
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Packaging

Size
Pail: 4 U.S. gals. (15.1 L)

Approximate Coverage*

per 4 U.S. gals. (15.1 L)

Flooring Type	Typical Trowel	Coverage
Cork underlayment up to 1/2" (12 mm) thick	1/8" x 1/8" x 1/16" (3 x 3 x 1.5 mm), V notch	260 to 340 sq. ft. (24.2 to 31.6 m ²)
ActionBac carpet and felt-backed sheet vinyl	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm), square notch	500 to 740 sq. ft. (46.5 to 68.7 m ²)

*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_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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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For the most current product data and BEST-BACKEDSM warranty information,
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