

Ultrabond ECO MS 4 LVT Wall [NA]

Professional, Hybrid-Polymer Adhesive for Resilient
Flooring on Walls



NORTH AMERICA [NA]

DESCRIPTION

Ultrabond ECO® MS 4 LVT Wall [NA] is a moisture-curing, one-component, thixotropic, silane-modified polymer adhesive specifically designed for the direct bonding of various resilient flooring types in both wall and floor installations.

FEATURES AND BENEFITS

- High moisture resistance, requiring no moisture testing
- Slip-resistant formulation
- Easy to apply and quick-curing
- Can be used over porous or nonporous vertical surfaces

INDUSTRY STANDARDS AND APPROVALS

Green certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- Use to install LVT as well as vinyl and rubber sheet, tile and plank flooring in wall and floor applications.
- Interior residential applications (multi-family and single-family homes)
- Interior commercial applications (office buildings, hotel rooms/hallways and restaurant dining areas)
- Interior heavy-commercial applications (hotel lobbies, convention centers, airports and department stores)
- Interior institutional applications (hospitals, schools, universities, libraries and government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not use for exterior installations.
- Do not apply over any adhesive residues.
- Do not install if standing water is present.
- Do not use in areas with known hydrostatic pressure, osmotic blistering or alkali silica reaction conditions.
- Do not install when the moisture vapor emission rate (MVER) exceeds 25 lbs. per 1,000 sq. ft. (11.3 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 100% (ASTM F2170).
- Do not install if the pH of the substrate exceeds 14.
- 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 use as a leveling, patching or subfloor repair material.
- Do not install over epoxy moisture barriers.

SUITABLE SUBSTRATES

- Existing, well-bonded tile and stone
- Existing, well-bonded resilient flooring
- Gypsum wallboard with paper intact
- Water- or solvent-based paint over gypsum wallboard
- Gypsum or cement-based wall patching compounds that are hard, durable, well bonded and fully cured
- Concrete, at least 28 days old and installed per ASTM F710 guidelines
- Cement terrazzo
- High-moisture-resistant, cement-based, self-leveling underlayments and patching compounds
- Exterior-grade plywood and other approved wood underlayments (per the flooring manufacturer's recommendations)
- Dry and primed gypsum underlayments that meet ASTM F2419 requirements for compressive strength
- MAPEI waterproofing membranes
- Radiant-heating systems that have been properly installed

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All substrates must be interior, structurally sound, surface-dry, solid and stable.
- Thoroughly clean all surfaces of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form-release agents, laitance, loose toppings, foreign substances and adhesive residues.

See the “Surface preparation requirements” reference guide in the Floor Covering Installations Systems section of MAPEI’s Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet (SDS) for details.

- Ready to use, with no mixing necessary

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Select the appropriately notched trowel (see the “Approximate Coverage” section below).
2. Spread adhesive evenly over the substrate, keeping the trowel at a 45-degree angle to the surface.
3. Only apply as much adhesive as can be installed over within 20 to 30 minutes.
4. Install and roll flooring material in strict accordance with flooring manufacturer’s written instructions.
5. Roll vertically applied flooring with a hand roller to ensure proper adhesive transfer.
6. Adhesive transfer to the backing should be confirmed periodically by lifting the flooring material.
7. For floor applications, use walk boards over freshly installed flooring to avoid adhesive displacement.

CLEANUP

- Whether the adhesive is fresh/wet or dry, adhesive smudges can be cleaned from the flooring material’s surface as well as from tools with a clean, white cloth.

PROTECTION

- Protect floor installations from light traffic and water exposure for at least 5 hours, and from heavy traffic for at least 24 hours. Wall applications will be ready for grouting in 12 to 24 hours.
- Building owners should be advised of the flooring manufacturer’s guidelines for climate control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation.

Product Performance Properties

Laboratory Tests	Results
Solids content	100%
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Density	11.4 lbs. per U.S. gal. (1.5 g per mL)
Flash point (Tag)	> 200°F (93°C)

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Polymer type	Hybrid-polymer
Color	White
Storage conditions	50°F to 90°F (10°C to 32°C)
Ready for grouting on wall applications	12 to 24 hours
Ready for light foot traffic	5 hours
Ready for heavy traffic	24 hours

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% RH

Flash time*	Working time**	Adjustability time***
5 to 10 minutes	20 to 30 minutes	30 to 45 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.

*** Adjustability time is the window of time during which the floor covering can be repositioned without compromising the bond of the adhesive.

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

Packaging

Size

Pail: 1 U.S. gal. (3.79 L)

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

Approximate Coverage†

Typical Trowel	Coverage
U-notch, 1/16" x 1/32" x 1/32" (1.5 x 1 x 1 mm)	185 to 245 sq. ft. per U.S. gal. (17.2 to 22.7 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.

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.**

CONTACT INFORMATION

MAPEI Headquarters of North America

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

Technical Services

U.S. and Puerto Rico:
Flooring: 1-800-992-6273
Concrete and heavy construction: 1-888-365-0614
Canada:
1-800-361-9309

Customer Service

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

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