

Ultrabond ECO 307

Hard-Setting Adhesive for Resilient Flooring



DESCRIPTION

Ultrabond ECO® 307 is a proprietary, hard-setting, water-based, hybrid polymer formulation designed for the permanent installation of all types of resilient flooring. *Ultrabond ECO* 307 is used in a wet-lay installation method only and is designed for use in the most demanding situations for the ultimate in controlling resilient floor movement. In addition, it offers superior rolling load resistance for high-traffic areas.

FEATURES AND BENEFITS

- Hard-setting for the ultimate control of gapping and edge lift
- Resistant to heavy rolling loads
- Resistant to high moisture
- Resistant to high temperatures
- Excellent bond strength

WHERE TO USE

- Approved for use with luxury vinyl tile and luxury vinyl plank, vinyl enhanced tile, vinyl composition tile (VCT), quartz tile, bio-based tile, fiberglass-reinforced vinyl sheet flooring, solid vinyl sheet flooring, solid rubber sheet and rubber tile flooring

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior installations only
- Install flooring only in areas recommended by the flooring manufacturer.
- Do not use on nonporous substrates.
- Do not install when the relative humidity (RH) of the concrete slab exceeds 99% (ASTM F2170).
- Do not install if the pH of the substrate is more than 12.
- Do not install in areas with known moisture problems.
- Do not install if water is present on the surface of the substrate.
- 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 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point.

SUITABLE SUBSTRATES

- Porous concrete (at least 28 days old) that meets the requirements outlined in ASTM F710
- Exterior-grade plywood and other approved wood substrates (per the flooring manufacturer's recommendations)
- Cement-based, self-leveling underlayments and patching compounds
- Properly primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419

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.
- 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 affect the overall performance of the product.
- Substrates must be flat to 3/16" in a 10-ft. span (4.5 mm in a 3.05-m span).
- Substrate must be porous according to ASTM F3191, "Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring."

See the "Surface preparation requirements" 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, with no mixing necessary

PRODUCT APPLICATION

Refer to the flooring manufacturer’s guidelines for acclimation requirements and complete installation instructions. Read all installation instructions thoroughly before installation.

1. Select the appropriate notched trowel (see the “Approximate Coverage” chart below).
2. Spread adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle to the surface.
3. Only apply as much adhesive as can be installed within 30 minutes.
4. Install flooring immediately into wet adhesive. Do not allow adhesive to dry without installing flooring into wet adhesive. If adhesive becomes clear and dry, scrape off the dried adhesive and reapply.
5. Do not work on freshly installed flooring. Use walk-off boards such as 1/4" (6-mm) Masonite to prevent wet adhesive from moving from under knee or foot pressure.
6. Roll flooring using a 100-lb. (45.4-kg) roller.

CLEANUP

- Use water to clean adhesive smudges from the flooring surface and tools while the adhesive is fresh/wet.

PROTECTION

- Building owners should become aware of the flooring manufacturer’s guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation.
- Protect the finished installation from foot traffic for 24 hours.

Product Performance Properties

Laboratory Tests	Results
Solids content	70%
VOC content (SCAQMD Rule 1168)	< 50 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	28 g per L
Density	10.9 lb. per U.S. gal. (1.3 g per mL)

Shelf Life and Product Characteristics before mixing

Adhesive type	Water-based hybrid polymer
Consistency	Paste
Color	Off-white

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)

Protect containers from freezing in transit and storage. If frozen, material should not be stirred until it has completely thawed. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Flash point (Tag)	> 201°F (94°C)
Flash time* at 73°F (23°C) and 50% RH	0 minutes
Working time* at 73°F (23°C) and 50% RH	30 minutes

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

Flooring Type	Typical Trowel	Coverage
Luxury vinyl tile/plank, bio-based tile, vinyl enhanced tile, VCT, fiberglass-reinforced vinyl sheet flooring, solid vinyl sheet flooring and rubber sheet flooring	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)

*** 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_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, visit www.mapei.com.

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