

Ultrabond ECO 907

Fast-Curing, Silane-Modified Polymer Adhesive



DESCRIPTION

Ultrabond ECO® 907 is a fast-curing, 100%-solids, moisture-curing, gun-grade adhesive designed for basic wood subfloor construction practices as well as repairing of wood flooring; bonding of wood stair nosings; installation of wood molding and baseboards; and attachment of tackstrips to concrete subfloors. *Ultrabond ECO 907* is also ideal for supplemental bonding of wide plank boards when nailing and gluing are required.

FEATURES AND BENEFITS

- 2-hour curing time
- High bond strength
- Excellent elongation properties

WHERE TO USE

- For the bonding of most common construction materials, such as plywood to lumber framing, engineered and solid wood flooring, wood moldings and baseboards, carpet tackstrips and polystyrene insulation boards
- Interior residential (rental apartments, condominiums and homes)
- Interior commercial (office buildings, hotel rooms/hallways and restaurant dining areas)
- Interior heavy commercial (hotel lobbies, convention centers, airports and department stores)
- Interior institutional (hospitals, schools, universities, libraries and government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.

- Do not apply over any adhesive residues including cutback adhesive.
- Install only when the substrate temperature is between 20°F and 100°F (-7°C and 38°C). Low temperatures and low humidity will extend curing times.
- Do not use as a substitute for screws when installing plywood subfloors. All plywood subfloors must be installed according to APA or CANPLY Group 1 guidelines.

SUITABLE SUBSTRATES

- Exterior-grade plywood and other approved wood underlayments (per flooring manufacturer recommendations)
- Concrete and cement terrazzo
- Ceramic tile
- Cement-based, self-leveling underlayments and patching compounds
- Properly primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- 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 structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete and cement-based underlayments and patches must be fully cured and free of any hydrostatic and/or moisture problems.

See the "Surface preparation requirements" reference guide in the Related Documents section of the Floor Covering Installation Systems page on 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. Insert the *Ultrabond ECO 907* cartridge into a suitable caulking gun or insert the *Ultrabond ECO 907* sausage pack into an appropriate dispensing gun.
2. Cut the tip and puncture the inner seal.
3. Apply a serpentine bead of adhesive to the substrate.

4. Only apply as much adhesive as can be installed within 15 to 30 minutes under normal temperature and humidity conditions.
5. Curing time may be accelerated by a light misting of water over the extruded adhesive before installation of the materials to be bonded. (Do not puddle water.)

CLEANUP

- Immediately clean tools with mineral spirits while the adhesive is still fresh/wet.
- Immediately clean any adhesive smudges from the flooring material's surface with mineral spirits while the adhesive is still fresh/wet.
- Dried *Ultrabond ECO 907* residue may be removed by gently rubbing with a white cloth to remove excess and then wiping lightly.

PROTECTION

- Protect from light traffic for at least 12 hours. Protect from heavy traffic for at least 24 hours.
- Building owners should be advised of the wood 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
Polymer type	Silane-modified
Solids content	100%
VOCs (Rule #1168 of California's SCAQMD)	< 20 g per L
Density	12.9 lbs. per U.S. gal. (1.53 g per mL)
Flash point (Tag)	> 200°F (93°C)
Elongation	> 200%

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Consistency	Smooth paste
Color	White
Service temperature range	-10°F to 200°F (-23°C to 93°C)
Curing time	120 to 150 minutes
Storage conditions	50°F to 90°F (10°C to 32°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

Over Porous and Nonporous Substrates	Flash Time*	Working Time**
At 73°F (23°C) and 50% relative humidity	N/A	15 to 30 minutes

* Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the bonding of materials.

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

Note: Working time will vary based on temperature, humidity, substrate porosity and jobsite conditions.

Packaging

Sausage pack: 20 U.S. oz. (591 mL)

Plastic cartridge: 29 U.S. oz. (858 mL)

RELATED DOCUMENTS

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

*** At www.mapei.com

ADDITIONAL INFORMATION

Refer to the 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).

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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