



Ultrabond ECO[®] 901

Premium Adhesive for
FRP Panels



DESCRIPTION

Ultrabond ECO 901 adhesive has been specifically formulated as a bonding agent for fiberglass reinforced plastic (FRP) panels.

FEATURES AND BENEFITS

- Exceptional wet grab to hold FRP panels firmly in place
- Light in color; non-staining
- Low in VOCs and odor

INDUSTRY STANDARDS AND APPROVALS

LEED Points Contribution

LEED Points

MR Credit 5, Regional Materials* Up to 2 points
 IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants 1 point

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

Use to install FRP panels to approved substrates.

LIMITATIONS

Do not install over any substrates containing asbestos. For interior installations only. Do not install over nonporous paints, wallpaper, vinyl wall coverings, laminates, ceramic tile, metal or similar nonporous wall finishes.

SUITABLE SUBSTRATES

- Gypsum wallboard with paper intact
- Water-based paint residue over gypsum wallboard
- Gypsum and cement-based wall-patching compounds that are hard, durable, well-bonded and fully cured

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Fully cured smooth masonry and concrete walls as recommended by the panel manufacturer

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, oil- or epoxy-based paint, curing agents, concrete sealers, loosely bonded patching compounds, 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. Masonry and concrete walls must be free of hydrostatic pressure and moisture issues.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary.

INSTALLATION

Read all installation instructions thoroughly before installation.

1. Cut and pre-fit panels, and then acclimate to ambient room conditions for 12 to 24 hours before installation. Install FRP panels in strict accordance with manufacturer's written instructions.
2. Select the appropriate notched trowel per recommendations from the FRP panel manufacturer (see "Typical Trowel and Approximate Coverage" section for suggested trowel).



Product Performance Properties

Laboratory Tests	Results
Polymer type	Acrylic-based
Percent solids	45% to 65%
VOCs	33 g/L
pH	8 to 10
Trowelability	Light and easy
Density	10.6 to 10.8 lbs. per U.S. gal. (4,81 to 4,90 kg per 3,79 L)
Consistency	Buttery
Color	Beige
Shelf life	2 years when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Flash point (Tag)	> 212°F (100°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 Table

	Flash time [†]	Working Time ^{††}
FRP Panels	0 to 10 minutes	10 to 30 minutes

[†] Flash time: Amount of time recommended for the adhesive to remain exposed to the air following application before the installation of floor covering.


^{††} Working time: The maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

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

Packaging

Product Code	Size
90164	4 U.S. gals. (15,1 L)

Typical Trowel and Approximate Coverage*

Typical Trowel	Coverage*
3/32" x 3/32" x 3/32" (2,5 x 2,5 x 2,5 mm) 	50 to 70 sq. ft. per U.S. gal. (1,22 to 1,71 m ² per L)

* Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according to application method, substrate, substrate conditions and actual thickness applied.

- Spread adhesive evenly over the wall surface, keeping the trowel at a 45° angle and leaving no voids or buildups of adhesive.
- Press the panel firmly into the adhesive bed, working from the center out using a hand-held roller to ensure that the entire back panel is in contact with the adhesive. Temporary bracing may be required if wall panels are not straight.

CLEANUP

- Promptly clean any adhesive smudges from the panel's surface with water while the adhesive is still fresh/wet, or with mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.
- Clean tools with water while the adhesive is still fresh/wet.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **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.**

We proudly support the following industry organizations:



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