

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

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

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. 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 the manufacturer's written instructions.
2. Select the appropriate notched trowel per recommendations from the FRP panel manufacturer (see the "Approximate Coverage" section below for the typical trowel).
3. Spread adhesive evenly over the wall surface, keeping the trowel at a 45-degree angle and leaving no voids or buildup of adhesive.
4. Press the panel firmly into the adhesive bed, working from the center out and 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 it has dried. Use caution with mineral spirits, which may be harmful to some materials.
- Use water only to clean tools while the adhesive is still fresh/wet.

Product Performance Properties

Laboratory Tests	Results
Solids content	45% to 65%
VOC content (SCAQMD Rule 1168)	< 50 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	28 g per L
pH	8 to 10
Density	10.6 to 10.8 lbs. per U.S. gal. (4.81 to 4.90 kg per 3.79 L)
Flash point (Tag)	> 212°F (100°C)

Application Properties

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

Flash time*	0 to 10 minutes
Working time**	10 to 30 minutes
Polymer type	Acrylic-based
Trowelability	Light and easy
Consistency	Buttery
Color	Beige
Shelf life	2 years when stored in original packaging
Storage conditions	40°F to 100°F (4°C to 38°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.

* *Flash time: The 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 time vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

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

Approximate Coverage***

Typical Trowel	Coverage
3/32" x 3/32" x 3/32" (2.5 x 2.5 x 2.5 mm), V-notch	50 to 70 sq. ft. per U.S. gal. (1.22 to 1.71 m ² per L)

*** 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.

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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