



Manufactured by:
Eclectic Products, Inc.
Industrial & Chemical
Pineville, LA 71361

Made in the USA

800.767.4667 - Technical Services

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TECHNICAL DATA SHEET

FRP Premium Column Adhesive

PRODUCT DESCRIPTION

FIBER REINFORCED POLYMER (FRP) Premium Column Adhesive is a unique non-sag adhesive, formulated for use in the installation of split columns, capitals, and bases. **FRP Premium Column Adhesive** can be used on Fiber Reinforced Polymer, Polyurethane Foam, Wood, Glass Fiber Reinforced Concrete, and Stone. This formula will not sag, drip, or run and can be used in applications requiring vertical and horizontal hold. **FRP Premium Column Adhesive** will bond in cold temperatures (-40°F/-40°C), and has good resistance to high temperatures (180°F/82°C) after full cure. The clear formula can be sanded with a *dustless sander* and painted after it has cured. **FRP Premium Column Adhesive** is impervious to water after curing.

PRODUCT CHARACTERISTICS & BENEFITS

Non-sag	Won't sag, drip or run on vertical or horizontal applications
Chemical resistant	Safe for applications exposed to diluted acids and diluted caustics
Abrasion resistant	Great for bonding objects subject to normal wear
Interior/Exterior	Yes, after formula has fully cured
Sandable	A dustless sander can be used after formula has fully cured
Paintable	Paint to match surrounding area or make UV resistant after fully cured
Waterproof	Impervious to water after complete cure

PROPERTIES OF UNCURED FILM

Color	Clear (color matching available)
Solvent	Perchloroethylene (non-flammable)
Density	11.0 lbs/gal
Solids	32% by weight, 44% by volume
Viscosity	Non-sag
Tack time	4 minutes
Full cure time @ 70°F-80°F	Thin film: 24 hours; Thick film: 48-72 hours
Storage	Store in dry area between 50°F (10°C) and 80°F (27°C)
Freeze/thaw stability	Stable; allow product to warm to room temperature before using
Shelf life	2 years (unopened)

PROPERTIES OF CURED FILM

Chemical resistant	Excellent to water, diluted acids and diluted bases
UV resistance	Paint over for UV resistance
Hardness	80A
Dielectric strength	400V/mil (ASTM D-149). This is the maximum voltage that can be applied to a given material without causing it to break down.
Tensile strength	3800 lb/in ² (ASTM D-412)
Elongation	900% (ASTM D-412)
Service temperature range	-40°F (-40°C) to 180°F (82°C)
Paint-over time	24 hours

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ADHESION TEST (Average values, 180° Peel Test, 4-day cure per ASTM D 903)

	FRP Premium Column Adhesive	PL® Polyurethane*	PL-400 Construction Adh.*
FRP Split Columns (non load bearing columns)	43	21	36
Polyurethane Foam (capital material)	54	19	25

*Competitor products

SOLVENTS THAT DISSOLVE E-6000® SERIES ADHESIVES

The following lists common solvents that dissolve E-6000® Series when hardened samples are immersed. The dissolution with these solvents is not instantaneous and therefore does not preclude usage in all cases. Applications where an occasional splash or brief exposure is expected may be acceptable. Test a small area before full use.

Gasoline	Cyclohexane	Perchloroethylene	1,1,1-Trichloroethane
Methylene chloride	Chlorothane NU	Chevron solvent 1100	Propyl acetate
Toluene			

CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON E-6000® SERIES ADHESIVES

E-6000 exhibits excellent resistance to water, dilute acids and dilute bases. Thin films of E-6000 were immersed in various chemicals for two weeks and exhibited weight gains of less than 2% and tensile strength loss of less than 10%. These chemicals are listed below. All percentages are given by weight unless otherwise noted.

Wine (20% alcohol by volume)	Beer (3.2% alcohol by volume)	Acetic acid (5% and 10%)
Sulfuric acid (3% and 10%)	Boric acid (3.1%)	Oxalic acid (3.1%)
Lactic acid (3.8%)	Distilled water	Sodium chloride (10%)
Sodium carbonate (2.7%)	Potassium hydroxide (3.4%)	Ammonium hydroxide (3.4%)
Ammonium nitrate (50%)	Nitric acid (10% and 20%)	Milk (fresh, tested at 40°F)
Motor oil (30w)	Hydraulic oil	Antifreeze
	Phosphoric acid (30% and 60% as P ₂ O ₅)	

DIRECTIONS FOR USE and APPLICATION NOTES

- Step 1** Read all FRP Premium column Adhesive Instructions before using. Use in well ventilated area only.
- Step 2** Unpack, position, and assemble column components following manufacturer's recommendations.
- Step 3** For highest bond strength, wipe down mating column surfaces with acetone or naphtha to ensure complete removal of release agent/dust.
- Step 4** Product can be used between 50°F (10°C) and 90°F (32°C). Cure time increases with lower temperatures.
- Step 5** Clip nozzle tip and puncture cartridge inside nozzle. Cartridge gun required.
- Step 6** Apply a continuous bead of adhesive to each surface to be joined and clamp column halves together following manufacturer's directions.
While FRP Premium Column Adhesive will bond properly with extended open time, it is best to proceed immediately from glue-up to assembly, whereby a generous amount of adhesive is forced out of the seam during assembly — which will later aid in the sanding/finishing process.
- Step 7** Excessive adhesive squeeze-out (more than ¼" bead) may be scraped or troweled-away prior to curing — being careful not to remove too much and cause additional joint-fairing during final finishing. Allow a minimum of 24 hours for adhesive curing. (Extend curing time to 72 hours in low temperature conditions.)

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Step 8 Sand off squeeze-out with a vacuum-assisted (dustless) sander, 150 grit paper, and appropriate personal protective equipment. Some manufacturers recommend an overall column sanding in preparation for primer/pain using 80 to 100 grit paper which would also work for the finishing of the seam if a faring step (Bondo (auto body filler)) is to be used.

In applications where columns will be painted directly (no filler step) it is advisable to utilize 120 to 150 grit paper for improved finished appearance (seam may still be evident after painting).

Step 9 Prime/Paint column following manufacturer's instructions.

For technical assistance, call 800.767.4667.

- FRP Premium column Adhesive hardens by solvent evaporation.

HAZARDS

This product contains perchloroethylene. Before working with this product, read and become familiar with information concerning hazards, proper use and handling. To request an MSDS, please send an Email to msds@eclecticproducts.com or call 800.333.9826.

LIMITED WARRANTY

The product is warranted against any defect in materials or workmanship under normal use and service for a period of 180 days after the date of purchase. The product is also warranted under any implied warranties provided under applicable state law, including, without limitation, the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, for a period of 180 days after the date of purchase. This warranty covers only the original buyer of the product. For warranty service, the buyer should contact the store where the product was purchased, or write Eclectic Products, Inc. P.O. Box 4450, Pineville, LA 71360 or call 800.767.4667. This warranty gives you specific legal rights, and you also have other rights, which vary from state to state.