



Manufactured by:
Eclectic Products, Inc.
Pineville, LA 71360

Made in the USA

800.767.4667 - Technical Services

eclecticproducts.com

ecoglue.com/eg_premium_wood.htm

TECHNICAL DATA SHEET

EcoGlue® Green Solutions™
Premium Wood Adhesive

PRODUCT DESCRIPTION

EcoGlue® Premium Wood Adhesive is a self-cross linking polyvinyl acetate wood adhesive that is pre-catalyzed and formulated to be ready for use. It is recommended for high frequency, hot press, and cold press applications. It possesses excellent viscosity stability, water resistance, heat resistance and has a very fast setting speed. Premium Wood can be used in a variety of wood-bonding applications such as edge and face gluing, finger jointing, panel-on-frame construction and veneer laminating. Typical end uses include furniture parts assembly and various millwork applications including architectural doors, stile / rail doors, frames, molding and plywood.

PRODUCT CHARACTERISTICS & BENEFITS

Solvent-Free	Non toxic. Contains no solvents. Safe to use indoors or in confined spaces.
Water Resistant	100%, after completely cured
Abrasion Resistant	Great for bonding objects subject to wear
Sandable	Once cured
Paintable	Paint to match surrounding area or make UV resistant
Stainable	Glued area should be sanded thoroughly before staining
Interior/Exterior	Ideal for indoor/outdoor use.
Features	Passes ANSI/HPVA Type II water resistance* Heat resistance requirements of ASTM D 5751-95 and WATT 91 FDA approved for indirect food contact Unaffected by most finishes Resists solvents, heat and mildew Contains no free phenol and/or urea formaldehyde resins Fast setting speed in room temperature, cold press, hot press or radio frequency (RF) applications

*Not for continuous submersion or for use below waterline

PHYSICAL PROPERTIES

Technology	Patented advanced PVA water-based formula
Color	White; dried film is clear
VOC	<1%
Density	9.1 lbs/gal
Solids	50% by weight
Viscosity	4,500 cps
PH	2.8
Dry Times	Thin film: 30 minutes / clamp wood / thicker film 24 hours
Cure Time	3 - 5 days for full water / heat resistance
Storage	Store in dry area between 50 and 80 °F (10 and 27 °C)
Freeze/Thaw Stability	Stable. Allow product to return to room temperature and stir
Shelf Life	1 year (unopened)

TECHNICAL DATA SHEET

PERFORMANCE PROPERTIES

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.
Water Resistance	High; ANSI-HPVA [HP-1-1994] "Type II" and strain group D3 of DIN EN204
Heat Resistance	ASTM D5751-95 and WATT 91
Chemical Resistance	Excellent to water, dilute acids and dilute bases
Service Temperature Range	Application temperature of the adhesive and materials should be greater than 55 °F (13 °C)
Paint-Over Time	24 hours
UV Resistance	None. Paint over for more protection.

SOLVENTS THAT DISSOLVE EcoGlue® Premium Wood

Once EcoGlue® Premium Wood is fully cured, the product is insoluble. Clean up with water before dried; use Acetone or MEK once dried.

CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON EcoGlue® Premium Wood

After curing, EcoGlue® Premium Wood exhibits excellent resistance to water, dilute acids and dilute bases.

EcoGlue® PREMIUM WOOD 180° Peel Strength Test — ASTM D 903: May 2009				
PRODUCT	WOOD (Birch)	MELAMINE	GLASS	STEEL
EcoGlue® PREMIUM WOOD	62.86	50.33	57.44	59.81
TiteBond II	57.10	58.87	53.21	53.01
TiteBond III	45.24	43.95	48.32	43.40
Roo Clear	25.38	9.40	32.42	26.82
RooTac	12.27	3.39	4.88	5.64
RooWood	54.66	1.99	52.43	44.41
Roo SuperBond	14.33	10.81	60.87	58.58
Elmer's Ultimate High Performance Glue	16.46	NA	28.69	25.74
Gorilla Glue	17.34	31.51	24.33	32.76
Liquid Nails Small Projects & Repairs	15.97	18.53	19.01	17.62
Avg. Max Load Measured in Psi (lbs. per square inch)				

EcoGlue® PREMIUM WOOD Lap Shear Test — ASTM D 3164-03: May 2009				
PRODUCT	WOOD (Birch)	MELAMINE	GLASS	STEEL
EcoGlue® PREMIUM WOOD	1,248.30	563.88	292.06	165.16
Avg. Max Load Measured in Psi (lbs. per square inch)				

TECHNICAL DATA SHEET

DIRECTIONS FOR USE - Read completely before using

Always test a small area before full use.

- Step 1** Please read all directions before using.
- Step 2** Surface must be clean, dry and free from oil and grease.
- Step 3** For proper performance, the application temperature of the adhesive and materials should be above 55 °F (13 °C).
- Step 4** Shake well before using.
- Step 5** Joints or parts should fit tightly.
- Step 6** Apply liberally and spread evenly on surfaces to be bonded. Clamping is recommended for 20-60 minutes. Do not apply stress to the joints for 24 hours. Remove excess wet glue with clean damp cloth. Close cap after use.
- Step 7** Initial bond forms in 20-30 minutes; 3-6 hours for 80% strength; 24 hours for 100% strength. Full water and heat resistance reached within 3 to 5 days.

For technical assistance, call (800) 767-4667.

- Clean up: Use water for clean up before glue dries. Applicator tip or cap can be cleaned with water.
- User tips: Not for structured or load bearing applications. Glue area should be sanded thoroughly before staining. Can be painted over in 24 hours.
- Methods of Application: Plastic bottle with applicator tip can be used for fine applications. Also can be spread with a roller spreader or brush. For spray applications, the viscosity of Premium Wood should be diluted to 500-1,000 cps.

HAZARDS

Product is not considered hazardous under normal conditions. MSDS is available on line at: eclecticproducts.com/msds/ecoglue_premwood_english.pdf; to request an MSDS, please send an e-mail to msds@eclecticproducts.com or call 800.333.9826.

MANUFACTURER DISCLAIMER

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. PO 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.