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Pineville, LA 71360

Made in the USA

800.767.4667 - Technical Services

[www.eclecticproducts.com](http://www.eclecticproducts.com)

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# TECHNICAL DATA SHEET

***EcoGlue® Green Solutions™  
Premium Wood Adhesive***

## PRODUCT DESCRIPTION

**EcoGlue® Premium Wood Adhesive** is a high performance environmentally safe (non-toxic, less than 1% VOC, no solvents) industrial adhesive that has a strong bond to wood. Its patented advanced PVA formula is water-based and made with no animal derivatives. As a result, the physical and mechanical adhesive strength, flex strength, heat resistance, sandability, toughness and water resistance are much higher than most other white glues.

## PRODUCT CHARACTERISTICS & BENEFITS

<b>Solvent-Free</b>	Non toxic. Contains no solvents. Safe to use indoors or in confined spaces.
<b>Water Resistant</b>	100%, after completely cured
<b>Abrasion Resistant</b>	Great for bonding object subject to wear
<b>Sandable</b>	Once cured
<b>Paintable</b>	Paint to match surrounding area or make UV resistant
<b>Stainable</b>	Glued area should be sanded thoroughly before staining.
<b>Interior/Exterior</b>	Ideal for indoor/outdoor use.
<b>Features</b>	Passes ANSI/HPVA Type 2 water resistance* Heat resistance requirements of ASTM D 5751-95 and WATT 91 FDA approved for indirect food contact Unaffected by 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

## PROPERTIES OF UNCURED MATERIAL

<b>Technology</b>	Patented advanced PVA water-based formula
<b>Color</b>	White; dried film is clear
<b>VOC</b>	<1%
<b>Density</b>	9.0 lbs/gal
<b>Solids<sup>1</sup></b>	49% by weight
<b>Viscosity<sup>2</sup></b>	4,000 - 6,000 cps
<b>PH</b>	2.5 - 3.5
<b>Dry Times</b>	Thin film: 30 minutes / clamp wood / thicker film 24 hours
<b>Cure Time</b>	3 - 5 days for full water / heat resistance
<b>Storage</b>	Store in dry area between 50 and 80 °F (10 and 27 °C)
<b>Freeze/Thaw Stability</b>	Stable. Allow product to return to room temperature and stir
<b>Shelf Life</b>	1 year (unopened)

<sup>1</sup> Cenco Moisture Balance

<sup>2</sup> Brookfield Viscometer, Model RVE, @20 RPM

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## PROPERTIES OF CURED MATERIAL

<b>Dielectric Strength</b>	400V/mil (ASTM D-149). This is the maximum voltage that can be applied to a given material without causing it to break down.
<b>Water Resistance</b>	High; ANSI-HPVA [HP-1-1994] "type 2" and strain group D3 of DIN EN204
<b>Heat Resistance</b>	ASTM D5751-95 and WATT 91
<b>Chemical Resistance</b>	Excellent to water, dilute acids and dilute bases
<b>Service Temperature Range</b>	Application temperature of the adhesive and materials should be greater than 55 °F (13 °C)
<b>Paint-Over Time</b>	24 hours
<b>UV Resistance</b>	None. Paint over for more protection.

## SOLVENTS THAT DISSOLVE EcoGlue® Premium Wood

Once EcoGlue® Premium Wood is fully cured, the product is insolvable. Use water for cleanup.

## 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.

<b>EcoGlue® PREMIUM WOOD 180° Peel Strength Test —</b> ASTM D 903: May 2009				
PRODUCT	WOOD (Birch)	MELAMINE	GLASS	STEEL
<b>EcoGlue® PREMIUM WOOD</b>	<b>62.86</b>	<b>50.33</b>	<b>57.44</b>	<b>59.81</b>
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)				

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

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## **DIRECTIONS FOR USE - Read completely before using**

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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**

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Product is not considered hazardous under normal conditions. To request an MSDS, please send an e-mail to [msds@eclecticproducts.com](mailto:msds@eclecticproducts.com) or call 800-333-9826.

## **MANUFACTURER DISCLAIMER**

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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.