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TECHNICAL DATA SHEET

**EcoGlue® Green Solutions™ Extreme
Premium Adhesive & Sealant**

PRODUCT DESCRIPTION

EcoGlue® Extreme is a high performance polyether moisture cure technology that is 100% solids, solvent free and less than 2% VOC. It's engineered for strong adhesion and instant grab on virtually any substrate, and will provide a long lasting weather tight seal once cured even in the most unfavorable wet application conditions. **EcoGlue Extreme** is suitable for vertical or overhead applications and can be painted after 24 hours. It is safe to use indoors, or in confined spaces, as it contains no odor. Best application temperatures are above 30 °F (-1 °C).

PRODUCT CHARACTERISTICS & BENEFITS

Non-Sag	Won't sag, drip or run on vertical or horizontal applications (may require tooling).
Water Resistant	Excellent, when fully cured.
Shrinkage	None, 100% solids.
Single Component	Easy to tool and gun; no mixing
Solvent-Free	No solvents. Safe to use indoors or in confined spaces. No odor. No Prop 65*. No outgassing.
Skinning/Tack Time	Instant grab, and typically skins over in 35 minutes.
Bonding	Variety of substrates.
Flexible	Does not become brittle in cold weather.
Paintable	Paintable after 24 hours.
Interior/Exterior	Ideal for indoor/outdoor use.
Formaldehyde FREE	Yes. Contains no free phenol and/or urea formaldehyde resins.

**Proposition 65: This product contains no Prop 65 listed materials.*

PROPERTIES OF UNCURED MATERIAL

Technology	Polyether Moisture Cure
Color	White
VOC	Less than 2%
Solids	100%
Density	1.39 (11.6/Gal)
Viscosity	1,000,000 + cPs Brookfield RVE, TF spindle, 4 RPM, 70 °F (21 °C)
Odor	None
Application	Apply above 30 °F (-1 °C)
Tack Time	35 minutes (ASTM C-679)
Full Cure Time	Full cure in 3 to 7 days depending upon temperature, humidity and thickness.
Shelf Life	1 year (unopened)
Freeze/Thaw Stability	Will not freeze; allow product to warm to room temperature before using.
Storage	Store in original unopened container and in a cool dry area. Protect container from heat and direct sunlight. Elevated temperatures will reduce shelf life.

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PROPERTIES OF CURED MATERIAL

Sag	Zero Slump (ASTM C-697)
Hardness	45 +/- 5 Shore A (ASTM C-661)
Shear Strength	350+ PSI (ASTM D-1002)
Shrinkage	No measurable shrinkage after 14 days
Elongation	300% (ASTM D-412)
Withstands Temps. Of	-40 to 200 °F (-40 to 93 °C)
Low Temperature Flex	-20 °F (-29 °C) pass 1/4" mandrel
Paint-Over Time	24 hours
UV Resistance	Excellent

EcoGlue® EXTREME Lap Shear Test — ASTM D 3164-03: May 2009				
PRODUCT	STEEL	ALUMINUM	PVC	WOOD (Birch)
EcoGlue® EXTREME	280.96	293.78	247.25	239.60
Eco-Bond HD 100 All Purpose	162.23	228.28	118.94	147.32
Eco-Bond LD 50 Trim/Tub/Sink/Tile	93.97	94.16	98.76	219.96
Sikaflex 1a	65.30	65.07	46.43	65.30
Sikaflex 221	83.64	83.61	59.96	153.02
Sikaflex 227	78.41	62.86	50.67	199.01
Sikaflex 252	122.39	86.79	53.54	399.29
DAP Clear Flexible	9.14	7.45	7.16	13.70
DAP SideWinder Siding & Window	171.10	205.50	69.75	146.53
PL 200	14.77	12.19	8.55	43.55
PL Roof & Flashing	187.71	156.47	89.12	204.77
PL 375 Heavy Duty	77.31	70.44	53.97	116.84
PL Window Door & Siding	169.99	114.42	70.29	195.29
Projects & Repair TiteBond GREENchoice	85.00	40.45	44.89	304.85
Heavy Duty TiteBond GREENchoice	89.06	62.76	51.60	294.46
Premium Polyurethane TiteBond GREENchoice	302.27	205.77	132.41	183.24
Weatherproof SubFloor TiteBond GREENchoice	60.64	29.39	24.56	651.06
Professional Drywall TiteBond GREENchoice	112.21	86.24	98.95	593.45
Professional Cove Base TiteBond GREENchoice	120.64	39.66	12.66	120.55
Avg. Max Load Measured in Psi (lbs. per square inch)				

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DIRECTIONS FOR USE - Read completely before using

Surfaces must be clean and free of dirt, oil or debris. Clean contaminated surfaces with alcohol, not petroleum based solvents. Use a quality caulking gun to ensure ease of application. Best when applied above 30 °F (-1 °C). Cut cartridge tip to desired size at a 45° angle, and puncture foil seal with nail. Begin gunning a thin layer on all surfaces to be bonded, spread evenly, wait 5 to 7 minutes, then assemble. Make sure bonded materials are tightly joined. Use mechanical fasteners as needed or dry tool the sealant to create a strong mechanical bond against the joint faces. Wet sealant can be removed using a solvent such as alcohol or soap and water. Cured EcoGlue Extreme can be removed by abrading or scraping the substrate.

SPECIFIC APPLICATIONS

Joint Design: Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth-to-width ratio of 1:2 (joint depth ½ the width). Refer to Joint Prep Table for guidelines. It is recommended that the joint shall be no less than ¼” (6mm) wide by ¼” (6mm) deep. The maximum depth of sealant shall be ½” (13 mm). Control the depth of the sealant by using a backer rod that is 25% larger than the joint opening at standard temperature. Where the joint configuration will not permit a backer rod, it is recommended that an alternative bond breaker be used. Prevention of three-point adhesion is necessary through the use of a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal.

Metal: Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, coatings and oils with an appropriate solvent such as alcohol.

It is recommended that coated substrates be tested for adhesion prior to starting the project.

Please contact Technical Services for specific application guidelines and recommendations.

Concrete: Concrete and masonry substrates should be fully cured and dry prior to application of the sealant. Remove any contamination by mechanical abrasion, sand blasting or power washing.

Wood: Wood should be clean, sound and dry prior to sealant application. Treated wood should be allowed to weather for 6 months. Coatings and paint should be removed (or tested for compatibility) to ensure a proper bond.

JOINT PREP TABLE

WIDTH (inches (mm))	DEPTH (inches (mm))
1/4 - 1/2 (6 - 13)	1/4 (6)
1/2 - 3/4 (13 - 19)	1/4 - 3/8 (6 - 10)
3/4 - 1 (19 - 25)	3/8 - 1/2 (10 - 13)
1 - 2 (25 - 50)	1/2 (13)

Applications require use of a quality caulking gun.

Do not allow EcoGlue Extreme to come into contact with uncured silicone sealants.

Substrates: Concrete, Block, Brick, Stone, Masonry, Wood, Cement Fiber Board, Aluminum, Galvanized Metal, PVC, SBS mod bit, EPDM, Foam, Vinyl, Glass and more.

Priming: In most instances EcoGlue Extreme will not require a primer. Properly preparing the surface will ensure a long lasting bond and weatherproof seal. The following surface preparation steps will enhance the adhesion of EcoGlue Extreme to the substrate – wiping the area down with solvents or alcohol, and roughing up the surface with sandpaper.

Caution: Avoid prolonged contact with skin. Uncured adhesive irritates eyes, in case of contact with eyes, immediately flush with water and call a physician.

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SPECIFICATIONS

ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A and O
Federal Specification TT-S-00230-C Type II, Class A
Corps of Engineers CRD-C-541, Type II, Class A
Canadian Standards Board CAN 19, 13-M82

HAZARDS

This product contains solvent-free formulated silyl-terminated polyether. Before working with this product, read and become familiar with information concerning hazards, proper use and handling. To request an MSDS, please send an e-mail 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 day 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.