

Wood ENG Low VOC Polymer Adhesive

1 Product Name

Wood ENG Low VOC Polymer Adhesive

2 Manufacturer

Custom Building Products
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3 Product Description

Wood ENG is a high bond strength, isocyanate-free adhesive specifically developed for engineered wood plank installations. Projects move quickly using this easy to trowel product with exceptional green grab. Perfect for no-hassle installations, this low VOC adhesive can be used in occupied spaces and is easy to clean with water.

Suitable as an adhesive

- Engineered Wood Plank & Parquet
- Engineered Bamboo

Key Features

Features/Benefits of Product in the Installation

- Superior bond-strength provides exceptional green grab
- No memory. Plank won't pull away
- Creamy and easy-to-trowel consistency
- Low odor, great for occupied environments
- Easy clean-up with soap & water, keeps projects moving

Suitable Substrates

- Concrete (industry approved)
- Cement/epoxy terrazzo
- Plywood and other approved wood substrates should be sound, stable and without excessive deflection
- Cement-based self-leveling underlayment and patching compounds
- Properly prepared primed/sealed gypsum underlayment per ASTM F2419
- Radiant heated floors (temperature should not exceed 85°F)
- Existing well bonded floor coverings
- Epoxy Coatings / Mitigation systems
- CustomTECH MVC™

* All surfaces / substrates above require proper surface preparation

Acceptable Substrate Conditions



- RH – 75 % / ASTM F2170 Relative Humidity in Concrete Floor Slabs - situ Probes
- pH [Substrate] – up to 12
- Adhesive is suitable for MVER – up to 3lbs. / per ASTM F1869 Moisture Vapor Emission Rate – See wood flooring manufacture for product limitations and requirements
- Contact Technical Services for test results/readings outside above conditions

* Contact Technical Services for test results/readings outside above conditions.

Limitations to the Product

IMPORTANT NOTE: Finished Flooring limitations and requirements will supersede recommendations of Wood ENG adhesive. Consult flooring manufacturer for performance data and recommendations.

- For interior use only
- Do not use when ambient and/or substrate temperature is below 50°F (10 C) or above 95°F (35° C) or when condensation exists
- Not for use with solid vinyl, vinyl backed carpet flooring
- Existing adhesive must be removed to an embedded residue with no surface trowel ridges
- Do not install over treated plywood
- Concrete pH not to exceed 12, consult flooring manufacture for limitations
- Do not install when MVER exceeds 3 lbs. per ASTM F1869
- Not for use in areas subject to hydrostatic moisture conditions
- Concrete substrate temperatures must be above dew point/condensation
- Do not install when RH/Relative Humidity exceeds 75% per ASTM F2170

*Not for use as a moisture mitigation system [see CustomTECH™ MVC]



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4 Technical Data

Applicable Standards

- NWFA / National Wood Flooring Association – Wood Flooring Installation Guidelines
- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Prob
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ICRI / International Concrete Institute

Technical Chart

Product Data	Composition	Advanced proprietary multi-polymer blend
	Appearance	Thick Creamy Paste
	Base color	Light yellow
	pH [product]	8.5-9.5
	Flash time	15 minutes
	Open/Working time	60 minutes
	Adjusting time	60-90 minutes
Service Timing	Installation - Light Traffic	Immediately after installation
	Installation - Moderate/Heavy	24 hours
	Installation - Full Service / Heavy Rolling	48 hours
Moisture Data	RH / Relative Humidity	up to 75%
	Ph [substrate]	up to 12
	MVER	up to 3 lbs.

Storage	Shelf life	2 years – stored in original unopened packaging at 73° F (23° C)
	Jobsite storage conditions required	50° F to 90° F (10° C to 32° C)

Environmental and Sustainability	Solvents	None
	Isocyanates	None
	VOCs (Rule #1168 of California's SCAQMD) - Super Compliant Products table https://www.aqmd.gov/home/rules-compliance/compliance/vocs/adhesive-and-sealants	<10 g/L
	*LEED Credits / MR5 and IEQ 4.1	Regional and low emitting materials
	Red List Free: https://living-future.org/declare/declare-about/red-list/	LBC / Living Building Challenge: This product has been verified to be free of any chemicals listed per the most current Red List on the LBC's website.

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute to LEED® certification.

5 Instructions

Installation

HVAC must be operational between 60° - 95°F/30-65% relative humidity a minimum of 48 hours prior to installation enabling the substrate, adhesive and flooring to be properly climatized. Large temperature and relative humidity discrepancy will affect the working time of the adhesive. See flooring manufacture's requirements.

1. Install per wood flooring manufactures instructions. Do not go beyond the working time of the product to prevent bond failure.
2. Spread the adhesive on the substrate using the recommended trowel. See Trowel table below and always follow floor covering manufactures trowel recommendations.
3. Apply adhesive that can be covered within 45 minutes.
4. Allow 15 minutes adhesive flash time before installing wood flooring.
5. Press firmly into the adhesive bed to compress all ridges.



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6. Occasionally lift up a board and check the subfloor for 100% coverage which is critical for moisture control. If proper transfer is not achieved, reapply using the recommended trowel.
7. Drying time of the adhesive is influenced by temperature, humidity of the room, air-flow and substrate temperatures/porosity.
8. Roll flooring's width and length with manufacture's recommended weight roller.
9. Allow for normal wood expansion at wall perimeter and all restraining abutments.
10. When installing over radiant heated floors, turn off heat for 24 hours before, during and 24 hours after installation. Failure to turn off the heat may cause bond failure. Temperature must not exceed 85°F.
11. Use Proper Personal Protective Equipment (PPE) when handling product.
12. PROTECTION – General Contractor, Flooring Contractor and Building owner must provide proper climate controls per flooring manufacturers requirements before, during and after flooring installation.

General Surface Prep

All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent or inhibit adhesion bonding. Concrete and cement-based underlayment/patching compounds must be fully cured and not exhibit signs of moisture or hydrostatic conditions/issues. Any existing adhesive must be removed to an embedded residue. Surface must be flat within 3/16" (4.8 mm) in 10 ft. (3 m). Self-leveling underlayment Concrete as well as cement-based underlayments and patches must be fully cured and free of any hydrostatic and/or moisture problems.

Floor Flatness requirements apply per wood manufacture and NWFA Installation Guidelines.

CUSTOM® products may be used in assemblies over concrete with high moisture vapor emission levels provided that other materials such as finish flooring, adhesives or membranes are approved in these conditions. Consult the manufacturers for their limitations and requirements. Additionally, any sources of moisture are to be limited to initial concrete placement and not from sources such as water intrusion or from a lack of an effective vapor retarder/barrier. Substrate must be prepared per ASTM F710 standards.

It is the responsibility of the installer to determine the suitability of the substrate and any required preparation work necessary to ensure a successful installation.

Assembly mockups will determine suitability for these conditions on specific projects. Contact CUSTOM Technical Services for product information (800) 282-8786.

Fill all surface cracks, grooves, depressions, control joints and non-moving joints According to ASTM F710.

Contaminants or curing compounds should be mechanically removed before installation.

Concrete must be free of efflorescence and not subject to moisture beyond the floor covering manufacturers' limits or hydrostatic pressure. Lightweight concrete surfaces must have a tensile strength in excess of 200 psi (1.4 n/mm²).

Cleaning of equipment

Immediate clean with water before adhesive dries. Consult the wood manufacture for cleaning wood finish surface instructions. To remove cured adhesive from pre-finished flooring, use a citrus cleaner or mineral spirits. Apply the adhesive remover to the affected area with a non-abrasive towel and allow to sit for 5-10 minutes to soften the adhesive. Then buff the adhesive off with the non-abrasive towel. Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, remove spilled or excess product and placed in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6 Availability & Cost

Contact the manufacturer or visit custombuildingproducts.com for information about product cost and availability.

ITEM CODE	SIZE	PACKAGE
EWAT4	4 gal (15.1 L)	Pail

7 Product Warranty

- 2 Years – Product only, unopened and properly stored.
- 15 Year System – CUSTOM Adhesive and CustomTECH Floor Preparation Systems.
- FLOOR-MATCH Warranty – CUSTOM Adhesives & CustomTECH Floor Preparation Products/Systems are warranted equal to the Flooring manufacturer's warranty term up to LIFETIME. *See CUSTOM FLOOR-MATCH Warranty, separate document.

8 Product Maintenance

Allow seven days after installation before cleaning flooring with saturated water and liquid compounds. General Contractor, Flooring Contractor and Building owner must provide proper climate controls per flooring manufacturers requirements before, during and after flooring installation.

Properly installed product requires no special maintenance, see flooring manufacture for service and maintenance requirements.

9 Technical Services Information

For technical assistance, contact Custom Technical Services at (800) 282-8786 or contact us online at custombuildingproducts.com.

10 Filing System

Additional product information is available from the manufacturer upon request.



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Coverage




SQUARE FOOT COVERAGE PER GALLON (SQUARE METER PER 3.8 L)		
Wood Parquet	60 - 80 sq. ft. (5.57 - 7.43 M ²)	1/8" x 1/8" x 1/8" (3.2 x 3.2 x 3.2 mm) SQ 
Engineered Wood plank < 1/2" (12.7 mm) thick	45 - 55 sq. ft. (4.18 - 5.11 M ²)	3/16" x 5/32" (4.8 x 4.0 mm) V 
Engineered Wood plank 1/2" - 5/8" (12.7 - 16 mm) thick	40 - 50 sq. ft. (3.72 - 4.65 M ²)	1/4" x 1/8" x 1/4" (6.4 x 3.2 x 6.4 mm) SQ 

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more sizes, use the material calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at 800-282-8786.



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