

# Wood HP4 4-In-1 Hybrid Polymer Adhesive



## 1. Product Name

Wood HP4 4-In-1 Hybrid Polymer Adhesive

## 2. Manufacturer

Custom Building Products  
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## 3. Product Description

Hybrid polymer, moisture cure wood-plank adhesive that does the job of four products in one bucket. It's an adhesive, concrete moisture barrier, sound reduction and crack isolation membrane all in one. The product is easy to trowel, has excellent ridge retention and superior green grab. This low VOC product is FloorScore certified.

### Key Features

- No Moisture Testing needed - Moisture Vapor Barrier
- Bridges non-structural cracks up to 1/8"
- Excellent Sound reduction properties
- Superior Early Grab and bond-strength

### Suitable Substrates

- Cement-based self-leveling underlayment and patching compounds
- Cement/epoxy terrazzo
- Concrete (industry approved) - at least 14 days old with an appropriate moisture vapor barrier properly installed
- Epoxy Coatings
- Existing well bonded floor coverings
- Plywood and other approved wood substrates
- Properly prepared primed/sealed gypsum underlayment per ASTM F2419
- Radiant heated floors (temperature should not exceed 85° F)

\* All surfaces / substrates above require proper surface preparation

### Acceptable Substrate Conditions

- RH - 100 % / ASTM F2170 Relative Humidity in Concrete Floor Slabs - See wood flooring manufacture for product limitations and requirements
- pH [Substrate] - up to 12

## Limitations to the Product

IMPORTANT NOTE: Finished Flooring limitations and requirements will supersede recommendations of Wood HP4 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
- Do Not install into/over standing water
- 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
- Not for use in areas subject to hydrostatic moisture conditions
- Concrete substrate temperatures must be above dew point/condensation
- Not for use as a moisture mitigation system under any other flooring types [see CustomTECH™ MVC]

## 4. Technical Data

### Applicable Standards

- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E492-16 Standard Test Method for Laboratory Measurement of Impact Sound Transmission
- ASTM E989-18 Standard Classification for Determination of Single-Number Metrics for Impact Noise
- ASTM E90-16 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E413-16 Classification for Rating Sound Insulation
- ASTM E2179-16 Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors
- NWFA / National Wood Flooring Association - Wood Flooring Installation Guidelines
- ICRI / International Concrete Institute

### Technical Chart

<b>Product Data</b>	Composition	Advanced proprietary multi-polymer blend
	Appearance	Thick Creamy Paste
	Base color	Off-white
<b>Product Timing</b>	Open/working time - wet set	60 minutes
	Installation - Light Traffic	60 minutes
<b>Service Timing</b>	Installation - Moderate/Heavy	24 hours
	Installation - Full Service/Heavy Rolling	48 hours

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**Moisture Data**      RH / Relative Humidity      up to 100%

**Storage**      Shelf life      1 year – stored in original unopened packaging at 73° F (23° C)

Jobsite storage conditions required      50° F to 100° F (10° C to 38° C)

Solvents      None  
 Isocyanates      None  
 VOCs (Rule #1168 of California's SCAQMD)      <5 g/L  
 - Super Compliant Products table <https://www.aqmd.gov/home/rules-compliance/compliance/vocs/adhesive-and-sealants>

\*LEED Credits / MR5 and IEQ 4.1

**Environmental and Sustainability**

Red List Free: <https://living-future.org/declare/declare-about/red-list/>

Regional and low emitting materials  
 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.

**Sound Reduction Ratings - 3/8" Thick Engineered Wood Flooring Over 6" concrete slab**

Specification	No Suspended Ceiling	Suspended Gypsum Ceiling
ASTM E 492-09 (2016) e1/ E989-18	46 (NGC 7020171)	68 (NGC 7020170_R1)
ASTM E 2179-03 (2016)	17.8 (NGC 7020172)	N/A

**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**

**General Surface Prep**

All surfaces must be structurally sound, without excessive deflection, 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.

Concrete substrates must have porosity/absorption and be free of curing compounds that prohibit proper bonding. When using as a moisture barrier under flooring, mechanical methods of preparing/profiling the surface are required. Use the ICRI/International Concrete Repair Institute's Guideline No. 03732 to achieve a #2 to #3 CSP/Concrete Surface Profile by using shotblasting and/or diamond grinding methods when and where necessary. Refer to ASTM F3191 for Field Determination of Substrate Water Absorption.

All surfaces must be flat, sound and stable. FloorFlatness requirements apply per wood manufacture and NWFA Installation Guidelines.

Do not install adhesive over substrates exhibiting hydrostatic conditions.

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.

**Cleaning of Equipment**

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. Size & Availability**

Contact the manufacturer or visit [custombuildingproducts.com](http://custombuildingproducts.com) for information about product cost and availability.

ITEM CODE	SIZE	PACKAGE
PHAAT4	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**

Follow wood flooring manufacturers written instructions for proper maintenance schedules, chemicals and techniques. 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](http://custombuildingproducts.com).

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## 10. Filing System

Additional product information is available from the manufacturer upon request.

### Coverage Chart

SQUARE FOOT COVERAGE PER GALLON (SQUARE METER PER 3.8 L)		
For moisture control, crack bridging and sound reduction	30 - 35 sq. ft. (2.79 - 3.25 M <sup>2</sup> )	Shark Tooth Trowel Clip 
Wood Parquet	60 - 80 sq. ft. (5.57 - 7.43 M <sup>2</sup> )	1/8" x 1/8" x 1/8" (3.2 x 3.2 x 3.2 mm) SQ 
Solid or Engineered Wood plank (pre-finished or unfinished) < 1/2" (12.7 mm) thick	45 - 55 sq. ft. (4.18 - 5.11 M <sup>2</sup> )	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. (3.75 - 4.65 M <sup>2</sup> )	1/4" x 1/8" x 1/4" (6.4 x 3.2 x 6.4 mm) SQ 

\*No more than 140 square feet of adhesive should be spread using the HP4 Shark Tooth trowel attachment / one per bucket. Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more sizes, use the material calculator at [CustomBuildingProducts.com](http://CustomBuildingProducts.com) or contact CUSTOM Technical Services at 800-282-8786.