

PRIMER / MOISTURE VAPOR RETARDER

P104 TURBO

1-component reaction resin rapid primer for wood flooring installations

PRODUCT DESCRIPTION:

Single-component polyurethane primer/moisture vapor retarder for use on wood, gypsum and concrete subfloors prior to installing hardwood floors.

SUITABLE FOR:

- ▶ OSB, plywood, particle board, and wooden planks
- ▶ Wooden substrates containing up to 20% moisture content, not exceeding a 10% moisture content differential. **Only one coat may be applied to any wood substrate.**
- ▶ Moisture vapor retarder over concrete substrates up to 98% RH
- ▶ Concrete, portland cement and gypsum underlayments, well bonded adhesive residues (including water soluble adhesive residues), and metal surfaces
- ▶ Radiant floor heating systems
- ▶ Absorbent and non-absorbent surfaces

NOTE:

BEFORE USING READ ALL DIRECTIONS AND SAFETY DATA SHEET (SDS). FOR PROFESSIONAL USE ONLY.

This product meets or exceeds all state and federal clean air quality standards and reflects our commitment to personal health, indoor air quality and the environment.

Call the PALLMANN® a division of Uzin Utz North America before using for technical advice if needed (1-866-505-4810)

FEATURES – BENEFITS:

- ▶ One component – Ready-to-use
- ▶ Moisture-cured polymers – Excellent surface consolidation/strengthening, dust encapsulation, & moisture transfer reduction
- ▶ Strong surface penetration – Increases adhesive bond & coverage rate
- ▶ Moisture vapor retarder – Compensates for 10 point differential between wood subfloor and wood flooring

TECHNICAL DATA:

Packaging:	1 US gal (3.78 L) 2.6 US gal (9.83 L)
Shelf life:	12 months
Color:	Red-brown
Coverage:	500 sq. ft per gal (depending on substrate porosity)
Working climate:	Min. 60°F (16°C) at floor level, 60 – 80°F (16 – 27°C) on radiant heat systems
Drying time:	See chart under Additional Notes
Curing time:	see chart
VOC	< 2 g/L

*At 70°F and 65% rel. humidity.



APPLICATION:

One Coat Application: PALLMANN P104 TURBO will accommodate resilient and hardwood floor installations over concrete substrates with moisture levels up to 90% RH (ASTM F 2170-09) or up to 12 lbs. per 1,000 sq. ft. per 24 hours (ASTM F1869). The coat thickness must be a minimum of 5 mils wet film thickness, applied as a consistent, closed layer.

Wood Substrates: PALLMANN P104 TURBO can be used on OSB, plywood, particle board, and wooden planks that are approved by the flooring manufacturer as acceptable substrates for flooring installation. PALLMANN P104 TURBO will control moisture imbalance between flooring and wooden substrates containing up to 20% moisture content, not exceeding a 10% moisture content differential. Only one coat may be applied to any wood substrate.

Two Coat Application: PALLMANN P104 TURBO will accommodate resilient and hardwood floor installations over concrete substrates with moisture levels up to 98% RH (ASTM F 2170-09) or up to 18 lbs. per 1,000 sq. ft. per 24 hours (ASTM F1869). The total coat thickness (both coats combined) must be a minimum of 10 mils wet film thickness, applied as consistent, closed layers.

Radiant Heat Systems: This application method can be used over concrete substrates with radiant heat systems, accommodating moisture levels up to 85% RH (ASTM F 2170-09) or up to 6 lbs. per 1,000 sq. ft. per 24 hours (ASTM F1869). The total coat thickness (both coats combined) must be a minimum of 10 mils wet film thickness, applied as consistent, closed layers.

Preparation:

The subfloor must be structurally sound, solid, free from active cracks, surface dry (no standing or pooling water) clean and free of all contaminants (bond breakers) such as grease, oil, paint, wax, curing and sealing compounds which may impair adhesion.

Thoroughly brush, abrade, grind or shot-blast to remove weakly-bonded or soft surface areas. Thoroughly vacuum off any loose material or dust.

On substrates that conform to standards and are suitable for wood floor installation, the use of a primer is not necessary.

All substrates should be tested for moisture content and moisture vapor emission levels before applying adhesive.

Refer to NWFA substrate moisture testing procedures and applicable ASTM slab moisture testing standards.

Application Instructions:

1. Allow the contents of the container to come to room temperature before use.
2. Shake well.
3. Pour the contents into a clean paint tray for easy roller application.
4. Apply a thin, even coat of primer using the Nylon Fiber Roller (Item #9394).
See application table for spread rates.
Avoid any pooling. Too heavy of an application or pooling may cause adhesion failure.
If applying a second coat of P104 TURBO and more than 72 hours has elapsed since first application you must abrade prior to application of second coat.

After 72 hours of dry time it is recommended to abrade surface with 40 – 60 grit abrasive to improve adhesion.

P104 TURBO may be used prior to the application of solid or engineered wood flooring glue down applications using PALLMANN adhesives. If more than 72 hours has elapsed since last coat of P104 TURBO you must abrade prior to application of the PALLMANN adhesive.

When used on highly absorbent substrates where the surface may not be adequately sound for a glue down flooring installation, apply one coat of P-104 TURBO using #9394 Nylon Fiber Roller to enhance surface integrity.

When used as a moisture vapor retarder under leveling compound, 3 coats are required.

The second coat must be allowed to dry overnight. Sand broadcast is required over the last coat while wet, completely covering the P104 (25# per 100 s/f; 0.4 mm or smaller; clean, washed and dry sand). When dry, brush and vacuum off any loose sand.

Clean tools immediately after use with mineral spirits. Hardened material can only be removed by mechanical means.

Optimum ambient installation conditions are 60 – 80°F. Lower temperatures will lengthen dry / cure time. Higher temperatures may cause short working times.

On highly absorbent surfaces, the application of a second coat should be considered in preliminary calculations.

In the case of moisture values higher than 7 lbs MVER or 90% RH, use PALLMANN® P108 Defend Epoxy MVR.

ADDITIONAL NOTES:

ASTM C 109 modified “Test method for compressive strength of hydraulic cement mortars”

ASTM F 1869-11 “Measuring moisture vapor emission rate of concrete subfloors using Anhydrous calcium chloride”

ASTM F 2170-11 “Determining moisture humidity in concrete floor slabs using in-situ probes”

Drying times and spread rates:

Substrate	Drying time per coat	Spread Rate
Dense to slightly absorbent surfaces (concrete)	40 – 90 min.*	approx. 500 sq.ft. per gallon
Absorbent surfaces (gypsum concrete)	40 – 60 min.*	approx. 350 sq.ft. per gallon
Existing surfaces with well-bonded adhesive residues	60 – 90 min. *	approx. 500 sq.ft. per gallon
Plywood / Wooden Substrates	60 – 90 min.*	300 – 350 sq.ft. per gallon

*At 70°F and 65% rel. humidity.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Do not handle until all safety instructions have been read and understood. Safety Data Sheet (SDS) is available at www.pallmann.us.

DISPOSAL:

Dispose of the product and packaging according to all federal, state, and local applicable regulations. Avoid or minimize waste generation when possible. Cardboard packaging is recyclable.

INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: < 2 g/L, compliant with SCAQMD 1113

VOC emission: Conforms to the CDPH Standard Method (CA 01350) V1.2-2017; TVOC emission less than 5.0 mg/m³.