

Product Datasheet

MOISTURE VAPOR RETARDER

PALLMANN P104 TURBO

1-component reaction resin rapid primer for wood flooring installations

PRODUCT DESCRIPTION:

One-component polyurethane fast dry primer for flooring installations using PALLMANN® adhesives. This product acts as a primer / surface strengthener on absorbent and non-absorbent surfaces and as a moisture vapor retarder on moisture resistant substrates with an MVER of up to 7lbs (ASTM F1869-11) or 90% RH (ASTM F2170-11). A two coat application is required as a moisture vapor retarder (no leveling). A three coat application is required as a moisture vapor retarder (with leveling).

SUITABLE FOR:

- ▶ A fast dry primer for glue down wood floor installations
- ▶ Strengthening of absorbent substrates such as gypsum concrete, porous concrete, or wooden substrates
- ▶ Moisture vapor retarder up to 7 lbs MVER or 90% RH
- ▶ Residential and commercial installations
- ▶ Radiant heat systems
- ▶ A vapor retarder in place of felt paper on wooden substrates up to 20% MC

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:

- ▶ Single component – Ready to use, no mixing
- ▶ Fast drying-Time – saving glue-down wood floor installations on absorbent substrates
- ▶ Strengthens gypsum – Excellent for priming over radiant concrete substrates heat floor systems embedded in gypsum concrete
- ▶ Low viscosity – Easy roller or trowel application and excellent surface penetration
- ▶ Moisture-cured, modified – Very rapid hardening and polyurethane pre-polymers excellent surface penetration
- ▶ Water-free, solvent-free – Very fast drying

TECHNICAL DATA:

Packaging:	1 U.S. gallon plastic container (3.78 L)
Shelf life:	12 months
Color:	Red-Brown
Consumption:	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
VOC	< 2 g/L

*At 70°F and 65% rel. humidity.



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:

1. Allow the contents of the container to come to room temperature before use. Shake well. Pour the contents into a clean paint tray for easy roller application.
2. 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 48 hours has elapsed since first application you must abrade prior to application of second coat.

After 48 hours of dry time it is recommended to abrade surface with 40-60 grit abrasive to improve adhesion. P104 TURBO may be used to prior to the application of solid or engineered wood flooring glue down applications using PALLMANN adhesives. If more than 48 hours has elapsed since last coat of P104 TURBO you must abrade prior to application of the PALLMANN adhesive. When used to strengthen highly absorbent surfaces that are not adequately sound or ready for a glue down installation, apply P104 TURBO in 1 to 2 coats using #9394 Nylon Fiber Roller to enhance the substrate 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; .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.

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"

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:

Read and follow all safety and environmental precautions and instructions on the packaging label and the Safety Data Sheet (SDS). The SDS is available at www.pallmann.us.

DISPOSAL:

For disposal and recycling, follow the applicable laws and regulations. Do not allow the material to get into sewers, waterways or unlined ground surfaces. Empty packaging may be 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.