PALLMANN P104

1-component reaction resin rapid primer for wood flooring installations.

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

Features

- Single component
- Fast drying
- Strengthens gypsum concrete substrates
- Low viscosity
- Moisture-cured, modified polyurethane pre-polymers
- Water-free, solvent-free
- Meets EMICODE EC 1 R

Benefits

- Ready to use, no mixing
- Time-saving glue-down wood floor installations on absorbent substrates
- Excellent for priming over radiant heat floor systems embedded in gypsum concrete
- Easy roller or trowel application and excellent surface penetration
- Very rapid hardening and excellent surface penetration
- Very fast drying
- Very low emission

Technical Data

Packaging:	1 gal. plastic container
Dry Times:	Absorbent surfaces: 40 – 90 min* Dense Surfaces: 60 – 150 min*
Stability:	12 months
Color:	Red - Brown
VOC Content:	Does not exceed 15 grams per liter
Coverage:	500 sq. ft per gal (depending on substrate porosity)
Working °F/C:	Min. 60°F (16°C) at floor level (60 – 80°F) [16 – 27 °C] on radiant heat systems

*At 70°F and 65% rel. humidity.

SURFACE STRENGTHENING PRIMER

PALLMANN®
wood floors. protected

PALLMANN P104 Directions for Use:

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).

Substrate 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

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.

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 and more than 48 hours has elapsed since first application you must abrade prior to application of second coat.

P104 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 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 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.

Substrate	Application Equipment	Drying Time Per Coat	Spread Rate
Dense to slightly absorbent surfaces (concrete)	Item #9394 Nylon Fiber Roller	*40 – 90 min.	approx. 500 sq.ft. per gallon
Absorbent surfaces (gypsum concrete)	Item #9394 Nylon Fiber Roller	*40 – 60 min.	approx. 350 sq.ft. per gallon
Existing surfaces with well-bonded adhesive residues	Item #9394 Nylon Fiber Roller	*60 – 90 min.	approx. 500 sq.ft. per gallon
Plywood / Wooden Substrates	Item #9394 Nylon Fiber Roller	*60 – 90 min.	300-350 sq.ft. per gallon

*When used as a moisture vapor retarder under leveling compound, the 2nd coat must be allowed to dry overnight.

Important Notes

- Shelf life minimum 12 months in original containers when stored in relatively cool conditions. Tightly re-seal opened containers and use as quickly as possible. Before use, allow to come to room temperature.
- Optimum ambient installation conditions are 64-25°C (77°F with floor temperature above 60°F (16°C). Low temperatures lengthen, while high temperatures shorten the dry/curing time.
- On highly absorbent surfaces, the application of a second coat should be considered in preliminary calculations.
- Direct bonding with reaction resin adhesives must follow within 48 hours after application of the primer. After 48 hours of dry time it is recommended to abrade surface with 40-60 grit abrasive to improve adhesion.
- In the case of moisture values higher than 7 lbs MVER or 90% RH, use PALLMANN® P108 Epoxy MVR
- The following standards, regulations and notices are applicable and especially recommended:
  - 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"

Protection of the Workplace and the Environment

Precautions

CAUTION: Contains: Diphenyl-methane-4,4'-diisocyanate, isomers / homologues. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Obtain special instructions before use. Wear protective gloves / protective clothing / eye protection / face protection.

FIRST AID: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice / attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER / doctor. Observe safety information on product label as well as Safety Data Sheet (SDS). Sensitized persons should not be exposed to liquid product. Presents no physiological or ecological risk when fully cured.

Disposal

DISPOSAL: Dispose of any unused / unwanted product or containers in accordance with local, state and federal regulations.

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