

MOISTURE VAPOR RETARDER / PRIMER

PALLMANN P108 DEFEND

2-component epoxy resin primer & moisture vapor retarder

PRODUCT DESCRIPTION:

2-component epoxy resin moisture vapor retarder without limitations on residual moisture content, for use on concrete subfloors.

SUITABLE FOR:

- ▶ A moisture vapor retarder/primer on concrete substrates such as scarified, very dense or smooth concrete, with no restriction on maximum residual moisture content
- ▶ A surface hardening primer on absorbent substrates, such as gypsum products and concrete
- ▶ A bonding agent on abraded ceramic tile, stone and terrazzo surfaces, existing substrates with well bonded adhesive residues, smoothing compounds and coatings including water soluble adhesive residues
- ▶ Radiant floor heating systems

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® division of Uzin Utz North America before using for technical advice if needed (1-866-505-4810). Use protective gloves.



FEATURES - BENEFITS:

- ▶ 100% solids epoxy resins – No limits on moisture transfer and no need to test for moisture
- ▶ Forgiving formula – No rush application
- ▶ Water-tolerant – Can apply to concrete that's as new as 3 days old
- ▶ Excellent mil thickness – Smooth, easy to glue to surface
- ▶ Strong adhesive properties – Minimal subfloor preparation

TECHNICAL DATA:

Packaging:	1.25 gal./5 kg metal combi-can
Shelf life:	12 months
Color:	Green
Mixing ratio:	Complete blending of parts A and B
Coverage:	Maximum 200 sq. ft. per pail (surface porosity will cause coverage rate to vary)
Working climate:	Min. 60 °F (16 °C) at floor level
Pot life:	15 – 30 minutes*
Drying time:	Set to foot traffic after 8 hours*
Final strength:	Load bearing after 3 – 5 days*
VOC	< 10 g/L

*At 70 °F (21 °C) and 65% relative humidity



PREPARATION:

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. Test the subfloor in accordance with applicable standards with regard to overall job site conditions. The substrate surface must have a good key to accept the PALLMANN® P108 DEFEND application. Weakly bonded or soft surface material, such as loose adhesive residues, leveling compounds, floor coverings or coatings must be removed by shot blasting, abrading, grinding or wet scraping. Thoroughly vacuum off all loose material or dust. Caution: Do not sand or grind adhesive residue, as harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Wood or concrete substrates that do not meet industry standards for flatness or level please refer to our brand UZIN for acceptable leveling compounds.

Application

- ▶ Before use, allow the combi-can to acclimate to room temperature.
- ▶ Break seal between upper and lower containers. Using a screwdriver or other long pointed object, punch several holes through the plastic plug on top and through the bottom of the upper container (Hardener Part B). Allow the hardener to completely drain into the lower container (Part A). **Do not mix partial quantities.** Remove the empty upper container and mix thoroughly for 90 seconds using item #9376 Spiral Mixer. Pour contents into a plastic bucket and mix for 60 seconds. While mixing, ensure that all of the material around the bottom and walls of the original container is incorporated and well mixed.
- ▶ Immediately apply the material evenly onto the surface using item #9394 Nylon Fiber Roller. Make sure the substrate is completely covered when applying as a moisture vapor retarder as missed spots will be ineffective.
- ▶ Observe the limited pot life.
- ▶ When used as a moisture vapor retarder, a minimum of two coats is required. Apply the second coat as soon as the first will accept foot traffic, but not later than 24-36 hours. To visually distinguish the second coat from the first, add approx. 1% of Item #9344 Epoxy Colorant (Red).

NOTE:

When installing wood flooring directly to the P108 DEFEND with PALLMANN® wood flooring adhesives, and more than 48 hours has elapsed since the last coat of P108 DEFEND has been applied, the surface must be abraded with a 40 to 60 grit abrasive on a rotary buffer to ensure adhesion of adhesive. When applying leveling compounds over P108 you must grit bind by broadcasting sand over the second coat. Liberally spread clean, dry sand .8 mm or sieve size #20 (approx. 60 lbs per 100 sq. ft.) into final coat of P108 DEFEND while still wet. After the application has set, brush and vacuum off any loose sand. Clean tools with mineral spirits immediately after use. Hardened material can only be removed by mechanical means.

ADDITIONAL NOTES:

- ▶ This product is designed to reduce moisture vapor transmission from concrete substrates. It will NOT prevent damage to the flooring caused by lack of moisture control from other sources. All other sources of moisture caused by leaks, broken pipes, poor drainage, subsurface hydrologic factors, etc., must be eliminated prior to installation.
- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool, dry conditions. In cold conditions, the material can thicken and be difficult to apply.
- ▶ Optimum working conditions are 60°F – 77°F (16 – 25°C). Low temperatures may make application more difficult, decrease coverage rate and strongly influence setting. High temperatures shorten the pot life and setting time. The material and floor temperatures must be min. 60°F (16°C).
- ▶ Concrete sub-floors should be at least 3 days old and visually dry before applying PALLMANN® P108 DEFEND primer. In order to guarantee a strong mechanical bond, make sure the substrate surface is clean and surface texture provides a good key. A two coat application is always recommended on highly absorbent or very porous substrates.
- ▶ After 24-36 hours the PALLMANN® P108 DEFEND surface must be abraded with a 40 or 60 grit abrasive before applying a PALLMANN wood floor adhesive.
- ▶ When applying as a moisture vapor retarder, always apply two coats at 200 sqft per pail, per coat
- ▶ Do not mix partial quantities.
- ▶ 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 F1869-11 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"
 - ASTM F2170-11 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"

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: < 10 g/L, compliant with SCAQMD 1113

VOC emission: Conforms to the CDPH Standard Method (CA 01350) V1.2-2017; TVOC emission between 0.5 and 5.0 mg/m³.