



# PALLMANN P108

Epoxy resin moisture vapor retarder system for concrete, and surface hardening primer for absorbent substrates.

## Description

A two component, 100% solids epoxy resin primer and moisture vapor retarder product for concrete substrates with high residual moisture. Reduces moisture vapor emissions to meet flooring manufacturer requirements.

Suitable for/as:

- 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

## Product Properties

A high quality, rapid setting 2 component 100% solids of medium viscosity especially developed for substrates where normal drying to permissible residual moisture levels is not possible. The fast setting property allows for very fast substrate preparation for floor covering installations. The special resin in PALLMANN® P108 cures on damp surfaces.

\* See application section for details.

**Composition:** Polyamine hardened epoxy resin.

## Features

- No limit on subfloor moisture vapor
- Water and solvent free
- Excellent covering and filling capacity
- Water and frost resistant
- Chemical resistant

## Technical Data

Packaging:  
Shelf Life:  
Color:  
Coverage Rate:

Mixing Ratio:  
Working Temperature:  
Pot Life/Working Time:  
Set to Foot Traffic/  
Load Bearing:  
Final Strength:  
VOC Content:

## Benefits

- May eliminate need for moisture vapor testing
- Easy application, very low odor
- Insures proper monolithic coated surface
- Excellent protection from the elements
- Resistant to contamination from other products

1.25 gal./5 kg metal combi-can  
Minimum 12 months  
Green  
Maximum 200 sq. ft. per pail (surface porosity will cause coverage rate to vary)  
Complete blending of parts A and B  
Min. 60 °F (16 °C) at floor level  
30 – 45 minutes\*  
After 12 – 24 hours\* (cool temperatures may delay set time to the full 24 hrs.)  
After 3 – 5 days\*  
Does not exceed 10 grams per liter.  
P108 is a LEED contributing product (IEQ credit 4.1)

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



2-COMPONENT  
EPOXY RESIN  
RAPID PRIMER



**PALLMANN®**

wood floors. protected

# PALLMANN P108 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 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. Test the subfloor in accordance with applicable standards with regard to overall jobsite conditions. The substrate surface must have a good key to accept a PALLMANN® P108 application. Any 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.

For wood or concrete substrates that do not meet industry standards for flatness or level please refer to the PALLMANN® P-25 leveling data sheets. Leveling product data sheets. For leveling uneven surfaces we recommend using PALLMANN® P25 leveling compound to a min. 1/8" thickness to achieve improved surface levels according to manufacturer's requirements.

## Application

1. 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 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.
2. 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 48 hours. To visually distinguish the second coat from the first, add approx. 1% of Item #9344 Epoxy Colorant (Red). NOTE: When installing wood directly to the P108 with PALLMANN® wood flooring adhesives, and more than 48 hours has elapsed since the last coat of P108 has been applied, the surface must be abraded with a 40 to 60 grit abrasive on a rotary buffer to ensure adhesion.
3. 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 while the P108 is still wet. After the application has set, brush and vacuum off any loose sand. We recommend using the PALLMANN® P25 leveling compound. Call the PALLMANN® technical department for further assistance or questions.
4. Clean tools with mineral spirits immediately after use. Hardened material can only be removed by mechanical means.

## Important Notes

- 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 subfloors should be at least 3 days old and visually dry before applying PALLMANN® P108 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.
- Wood flooring adhesive applications should be made within 48 hours of the final coat of the PALLMANN® P108 application. After 48 hours it is recommended to abrade the PALLMANN® P108 surface with a 40 or 60 grit abrasive before applying adhesive and installing flooring.
- When applying as a moisture vapor retarder, always apply two coats with maximum 200 sq/ft per pail/ per coat.
- Do not mix part 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

## Protection of the Workplace and the Environment:

### PRECAUTIONS:

**Component A: Caution: Irritant, contains epoxy resins.**

**Component B: Caution: Corrosive, contains amine hardener.**

**Both Components:** Keep out of reach of children. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. When mixing both components and during application, ventilate well and use barrier cream, protective gloves and goggles. local, state and national legislation shall be followed.

**FIRST AID:** In case of skin or eye contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, obtain medical treatment. When mixing wear a protective dust mask. Use protective gloves.

Observe safety information on product label as well as Safety Data Sheet (SDS). Presents no physiological or ecological risk when fully cured. EMI CODE EC 1 R – very low emission.

### Disposal:

DISPOSAL should be in accordance with local, state or national regulations. Do not allow liquid product to reach sewage system. Empty metal containers are recyclable. Collect waste material, mix both components and allow to harden, then dispose as Construction Waste

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the flooring manufacturer. The publication of this Product Data Sheet invalidates all previous product information.

**Uzin Utz**  
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