

# WAKOL PU 280 Moisture Barrier

## Product Data Sheet

### Description

One component premium moisture barrier and primer for

- porous subfloors
- non-porous subfloors
- solidifying soft subfloor surfaces
- “green” concrete slabs
- concrete with residual moisture prior to installation of flooring.

One coat of WAKOL PU 280 Moisture Barrier will block moisture in concrete slabs up to 12 lbs. / 1000 sq. ft. / 24 hour (ASTM F 1869) or up to 90 % rH (ASTM F 2170-02)

Two coats of WAKOL PU 280 Moisture Barrier will block moisture in concrete slabs up to 18 lbs. / 1000 sq. ft. / 24 hours (ASTM F 1869) or up to 98 % rH (ASTM F 2170-02)

Two Coats of WAKOL PU 280 Moisture Barrier can also be used to block moisture up to 6 lbs. / 1000 sq. ft. / 24 hours (ASTM F 1869) or up to 85 % rH (ASTM F 2170-02) over radiant heat.

### Special Features



- 1) Based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMICODE EC1 PLUS R: very low in emissions
- 2) Meets Indoor Air Emissions criteria of: California Section 01350, CHPS, Indoor Advantage Gold™, FloorScore
- 3) LEED credits under 4.1
- 4) Meets criteria of Californian South Coast Air Quality Management District, rule 1168
- 5) Meets criteria of Bay Area Air Quality Management District

- zero VOC
- solvent free, water free
- no mixing required
- easy to spread
- fast curing
- water resistant when cured
- approved for radiant heated floors
- excellent coverage

## Properties

Base:	Polyurethane resin
VOC content:	0g/l US regulatory
ASTM E 96-05:	Water Vapour Transmission (WVT) 0,138 g/m <sup>2</sup> x h @ approx. 7,9 mils Permeance (perms) 0,47 @ approx. 7,9 mils
Cure Time:	approx. 45 minutes
Cleaning agent:	Mineral spirits before primer cures
Shelf life:	1 year in unopened container at 70 °F / 21 °C

### Application and coverage<sup>6)</sup>:

Application	Coverage
Loba microfibre roller # 60 - 80 or # 120	approx. 400 sq. ft. / gal. per coat

6) Coverage is dependent on surface structure and porosity of subfloor

## Subfloors

All surfaces must meet the NFWA or RFCI Guidelines, they must be smooth and level. They must be structurally sound, solid, well fastened, clean and free from dust, oil, grease, paint, wax, old adhesive. Check for curing and parting compounds, surface hardeners and sealers which are known to interfere with the primer to concrete, as well as loosely bonded toppings, primers or any other deleterious substances that may prevent or reduce adhesion. High density concrete surfaces which are power troweled or burnished need to be abraded with a Diamabrush Removal Tool by Malish® grit 25 or similar to achieve a matte surface appearance.

Do not use WAKOL PU 280 Moisture Barrier on subfloors with hydrostatic pressure.

### New concrete

For installations on moist concrete subfloors with moisture emission up to 18 pound / 1.000 sq. ft. / 24 hours (ASMT F 1869) or up to 98 % RH (ASTM F 2170-02) apply WAKOL PU 280 Moisture Barrier in 2 coatings prior to the installation of the wood flooring; on moist concrete subfloors with moisture emission up to 12 pound / 1.000 sq. ft. / 24 hours (ASMT F 1869) or up to 90 % RH (ASTM F 2170-02) apply one coat of WAKOL PU 280 Moisture Barrier prior to the installation.

### Wood subfloors / underlayments

OSB, plywood, particle board and wooden planks which are approved from the manufacture as underlayment for flooring installation. On wooden subfloors (up to 20% moisture content) WAKOL PU 280 Moisture Barrier can be used as primer in a one coat application.

## Terrazzo and ceramic tiles

Existing terrazzo and ceramic tiles must have full adhesion to the subfloor. Remove all residues of maintenance products and other materials that may inhibit a good adhesion. Abrade subfloor with grid 40 or 60 to ensure a mechanical bond.

## **Application**

Shake WAKOL PU 280 Moisture Barrier well before use. Apply each coat of the primer by using Loba® Micro #60 - 80 or #120 Roller evenly and without puddling or dry spots.

When applying two coats it is recommended to apply one coat and the second coat perpendicular to the first to ensure complete coverage with no dry spots or puddling. Each coat must form a thin and entirely closed layer.

When applying one coat it is also recommended to spread the primer in a cross directional action on the floor to avoid dry or missed spots.

The following Adhesives are approved for direct glue down on WAKOL PU 280 Moisture Barrier:

WAKOL PU 225 Wood Flooring Adhesive  
WAKOL MS 230 Wood Flooring Adhesive, flexible  
WAKOL MS 260 Wood Flooring Adhesive, firm flexible  
WAKOL MS 265 Wood Flooring Adhesive, flexible  
WAKOL MS 290 Wood Flooring Adhesive, firm

Install flooring within 72 hours after WAKOL PU 280 Moisture Barrier is cured.

If leveling of the subfloor is required, apply WAKOL D 3045 Special Primer on top of WAKOL PU 280 Moisture Barrier within 24 hours after WAKOL PU 280 Moisture Barrier is cured. Allow WAKOL D 3045 Special Primer to dry for 1 hour prior to applying WAKOL Z 615 Leveling compound, dust reduced. Alternative to WAKOL D 3045 Special Primer apply an additional coat of WAKOL PU 280 Moisture Barrier and spread quartz sand, grid 0,2 - 0,8 mm before the primer is cured. After the primer is cured, at least 2 hours, sweep and vacuum the surplus sand.

## **Important Information**

Jobsite conditions must meet NWFA or RFCI Guidelines. Doors and windows must be installed and the HVAC running to simulate the living environment climate conditions at work site: 60 °F to 75 °F / 15 °C to 24 °C, 40 % to 65 % relative humidity. Acclimatize materials during cold periods properly.

Primer can be used above grade, on grade and below grade. Do not use primer on subfloors with excessive moisture and hydrostatic pressure.

## **Disclaimer**

The responsibility of the suitability of the primer for each individual case cannot be assumed, as the manufacturer has no influence on the proper application of the adhesives by the installer and or contractor. The directions for use were established on the basis of research, experience and tests believed reliable. Any liability on the part of the seller cannot be derived therefrom, verbal information is subject to written confirmation.

The latest version of this product data sheets can be found at [www.wakol-usa.com](http://www.wakol-usa.com).

This Technical Information of 06/02/2017 supersedes all previous versions.