

WAKOL PU 280 Moisture Barrier

Technical Data Sheet



- Zero VOC
- Fast curing
- Solvent free, water free
- Not affected by water when cured
- No mixing required
- Approved for radiant heated floors
- Easy to spread
- Excellent coverage



Application and Coverage*

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

When applying two coats it is recommended to apply 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 product 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 232 Wood Flooring Adhesive, flexible
- WAKOL MS 260 Wood Flooring Adhesive, firm flexible
- WAKOL MS 262 Wood Flooring Adhesive, firm flexible
- WAKOL MS 290 Wood Flooring Adhesive, firm
- WAKOL MS 292 Wood Flooring Adhesive, firm
- WAKOL MS 550 Resilient and Rubber Flooring Adhesive
- WAKOL MS 552 Resilient and Rubber Flooring Adhesive
- WAKOL MS 245 Montinator

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- WAKOL MS 246 StarMonti
- WAKOL D 3320 PVC Adhesive (dry set)
- WAKOL D 3120 PVC Adhesive (pressure sensitive)
- WAKOL D 3540 Cork Flooring Adhesive (3 coats WAKOL PU 280 Moisture Barrier)

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 approximately 1 hour prior to applying WAKOL Z 615 (dust reduced) or WAKOL Z 631 Leveling Compound. 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 WAKOL PU 280 Moisture Barrier is cured. After the WAKOL PU 280 Moisture Barrier is cured, at least 2 hours, sweep and vacuum the surplus sand.

Loba microfiber roller# 60 - 80 or # 120	approx. 400 sq. ft. / gal. per coat
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* coverage is dependent on the surface structure and porosity of the substrate

Areas of Application

One component premium moisture barrier and primer for

- Porous/absorbent subfloors
- non-porous/non-absorbent subfloors
- solidifying soft subfloor surfaces (including gypsum and lightweight concrete)
- “green” concrete slabs
- encapsulate non-water-soluble adhesive residue (including “cut-back”)
- as a primer / moisture retarder on plywood substrates
- 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)

No moisture test required: The concrete must be surface dry, at least 28 days old and must have an intact structural waterproofing membrane beneath the slab.

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.

Subfloors

All surfaces must meet the NWFA or RFCI Guidelines, they must be permanently dry, 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. All concrete surfaces must meet the ASTM F710 standards, 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 bond of the product to concrete, as well as loosely bonded toppings, primers or any other deleterious substances that may prevent or reduce adhesion.

When WAKOL PU 280 Moisture Barrier is being used as a moisture barrier the concrete surface must be mechanically prepared using appropriate tools/equipment to an absorbent state per ASTM F 3191.

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

New Concrete

For Installations on concrete subfloors with moisture emission up to 12 pounds / 1,000 sq. ft. / 24 hours (ASTM F 1869) or up to 90% RH (ASTM F 2170-02) apply one coat of WAKOL PU 280 Moisture Barrier prior to the installation. For installations on concrete subfloors with moisture emission up to 18 pounds / 1,000 sq. ft. / 24 hours (ASTM F 1869) or up to 98% RH (ASTM F 2170-02) apply WAKOL PU 280 Moisture Barrier in 2 coats prior to the installation of the flooring; Concrete surface must be absorbent per ASTM F 3191.

Wood Subfloors / Underlayment

OSB, plywood, particle board and wood planks which are approved from the manufacture as acceptable substrates for flooring installation. On wood subfloors (up to 20% moisture content) WAKOL PU 280 Moisture Barrier can be used as moisture “retarder” in a single coat application. Do not apply 2 coats of WAKOL PU 280 Moisture Barrier to wood substrates.

Terrazzo and Ceramic Tile

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 substrates with 40 or 60 grit to ensure a mechanical bond.

Technical Data

Raw material Base:	Polyurethane resin
VOC content:	0g/l US regulatory
ASTM E 96-05:	Water Vapor Transmission (WVT) 0.138 g/m ² x h @ approx. 7.9 mils Permeance (perms) 0.47 @ approx. 7.9 mils
Cure Time:	approx. 45 minutes

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Cleaning agent: Mineral spirits before primer cures
Shelf life: 1 year in unopened container at 70 °F / 21 °C

Important Information

Jobsite conditions must meet ASTM, 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. Acclimate materials during cold periods properly.

WAKOL PU 280 Moisture Barrier can be used above grade, on grade, and below grade. Do not use WAKOL PU 280 Moisture Barrier on subfloors with hydrostatic pressure.

Disclaimer

The responsibility of the suitability of the product 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.

We guarantee the uniform high quality of our products. All data is based on tests and many years of practical experience and refers to standardized conditions. The variety of materials used and the different construction site conditions, which lie beyond our control, preclude any claims based on this data. We therefore recommend making sufficient trials. Accompanying flooring manufacturer's instructions and the currently applicable codes must be observed. We gladly provide technical advice.

Symbols

The symbols describe the properties and applicability of the individual products:

- 1) Based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMI CODE EC1 PLUS: very low in emissions
- 2) Meets Indoor Air Emissions criteria of: California Section 01350, ·CHPS, ·Indoor Advantage Gold™, ·FloorScore
- 3) Product meets the indoor air quality requirements of the RFCI
- 4) LEED credits under 4.1
- 5) Meets criteria of Californian South Coast Air Quality Management District, rule 1168
- 6) Meets criteria of: Bay Area Air Quality Management District
- 7) Suitable for chair castors
- 8) Suitable for radiant heated floors

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All Wakol technical data sheets can be found at www.loba-wakol.com.

This Technical Information of 11/22/2021 supersedes all previous versions.

For Technical support contact Loba Wakol, LLC at 800.230.6456 (extension 2) or by e-mail at technical@loba-wakol.com.