



- Blocks pH up to 14
- Fast Curing
- Up to 100% rH\*\* (See below for details)
- Solvent free, water free
- Not affected by water when cured
- No mixing required
- Creates a neutral pH surface
- Easy to apply
- Excellent coverage



## Specifications

Raw material base: Polyurethane resin

Type: 1 component polyurethane roller applied penetrating moisture mitigation system

Color: Blue

Odor: None to negligible

VOC Content: 0 g/l US regulatory

Working Time: Approx. 45-60 minutes (depending on humidity)

Cure Time: 24 hours (depending on humidity)

Cleaning agent: WAKOL RT 5960 Cleaning towels or mineral spirits before product dries

Shelf Life: 18 months in unopened container at 70°F / 21°C, not below 40°F / 5°C

Freeze/thaw stable: Yes

Unit Size: 2.5 gal. and 1 gal.

Unit Weight: 2.5 gal.: 25.6 lbs. ea.

1 gal.: 10.8 lbs. ea.

Units per pallet: 2.5 gal. 72 pieces / 1 gal. 144 pieces

Item Number WA-FL-017-L: 2.5 gal. WA-FL-184-L: 1 gal.

### Important Information

Jobsite conditions must meet the NWFA, ASTM, and/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 75% relative humidity. Acclimate materials to acceptable jobsite conditions.

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 achieve an absorbent state per ASTM F3191. To perform at its specified level as a moisture barrier, WAKOL PU 280 Moisture Barrier must be able to penetrate the capillary structure of the concrete.

Concrete floors that have been chemically abated must be shot/bead blasted to help ensure no residue remains and the surface is absorbent per ASTM F3191.

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

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

One coat of WAKOL PU 280 Moisture Barrier will block moisture in concrete slabs up to 12 lbs. /1,000 sqft / 24 hour (ASTM F1869) or up to 90% rH (ASTM F2170).

- One coat is considered a primer and/or moisture "retarder"

Two coats of WAKOL PU 280 Moisture Barrier will block moisture in concrete slabs up to 18 lbs. / 1,000 sqft / 24 hours (ASTM F1869) or up to 100% rH\*\* (ASTM F2170).

- Two coats are considered a moisture "barrier"

\*For concrete substrates higher than 98% rh, it is required to provide a pre-installation checklist for evaluation. Contact your Loba-Wakol representative or Technical Department.

Over Radiant Heat two coats of WAKOL PU 280 Moisture Barrier can also be used to block moisture up to 6 lbs. / 1,000 sqft / 24 hours (ASTM F1869) or up to 85% rH (ASTM F2170) over radiant heat.

No moisture testing is required for concrete substrates if all the following conditions are met:

- Must have no surface moisture
- Must be at least 28 days old
- Must have a surface temperature of at least 60° F (16° C)
- There must be an intact structural waterproofing membrane beneath the slab. Then two coats of WAKOL PU 280 Moisture Barrier must be applied

**Recommended Use** – On properly prepared absorbent and non-absorbent subfloors

- Commercial / Residential
- Concrete with excess residual moisture prior to installation of flooring
- As a moisture barrier over absorbent (per ASTM F3191) substrates
- As a primer/retarder on plywood and moisture sensitive substrates (wood, gypsum, etc.)
- Solidifying soft subfloor surfaces (including gypsum and lightweight concrete)
- “Green” concrete slabs (28 days old)
- Encapsulate non-water-soluble adhesive residue (including “cut-back”)

### **Subfloors / Substrates**

All surfaces must meet the NWFA, ASTM, and/or RFCI Guidelines. All concrete surfaces must meet ASTM F710 standards. They must be permanently dry, smooth, and flat. They must be structurally sound, solid, well fastened, clean and free from dust, oil, grease, paint, wax, old adhesive. Mechanically remove 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.

### Concrete

Concrete floors must be constructed, finished, and cured (minimum 30 - 60 days) in accordance with the American Concrete Institute (ACI) 302 “Guide for Concrete Floor and Slab Construction” (Class 2 or 4) with a minimum compressive strength of 3,500 psi (246 kg / cm<sup>2</sup>).

- Apply a one coat with moisture emission up to 12 pounds / 1,000 sq.ft. / 24 hours (ASTM F1869) or up to 90% rH (ASTM F2170)
- Apply two coats with moisture emission up to 18 pounds / 1,000 sq.ft. / 24 hours (ASTM F1869) or up to 100% rH\*\* (ASTM F2170)

\*For concrete substrates higher than 98% rH, it is required to provide a pre-installation checklist for evaluation. Contact your Loba-Wakol representative or Technical Department.

Concrete surface must be absorbent per ASTM F3191.

### Gypsum (and other moisture sensitive substrates)

Gypsum underlayment must meet the minimum compressive strength requirements of the floor covering being installed. Loose, friable, or dusty gypsum can be consolidated/solidified by application of a single coat of WAKOL PU 280 Moisture Barrier.

- Apply one coat only to gypsum-based underlayment with relative humidity up to 90% rH (ASTM F2170)
- Do not apply two coats to gypsum-based underlayment (and other moisture sensitive substrates)

### 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. Can "offset" up to 10 points difference between plywood and wood flooring.

- Do not apply 2 coats of WAKOL PU 280 Moisture Barrier to wood substrates

### 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 40 or 60 grit sandpaper to ensure a mechanical bond.

### Leveling compounds

Rough surfaces must be treated with WAKOL approved Leveling Compounds. Please check Technical Data Sheet for details. Alternative leveling compounds may be used if approved by the floor covering manufacturer.

### **Application and Coverage\***

Shake WAKOL PU 280 Moisture Barrier well before use. Apply each coat of the product using the LOBA Roller Microfiber 60-80 (or ¼" short nap roller) evenly and without puddling or dry spots to form a thin, even, and entirely closed layer.

When applying two coats as a moisture barrier

- It is recommended to apply the second coat perpendicular to the first coat to ensure complete coverage with no dry spots or puddling

When applying one coat as a primer

- It is also recommended to roll the product in a cross directional application on the floor to avoid dry or missed spots

The following adhesives are approved for direct glue down to WAKOL PU 280 Moisture Barrier:

- Wakol Polyurethane (PU) Adhesives
- Wakol Modified Silane (MS) Adhesives
- Wakol dry-setting Dispersion (D) Adhesives

Confirm compatibility with the Technical Data Sheet for each adhesive. Suitability may vary depending on the type of floor covering being installed.

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 approved Wakol Leveling and Patching Compounds. Alternative to WAKOL D 3045 Special Primer, apply an additional coat of WAKOL PU 280 Moisture Barrier and spread quartz sand, grit 0.2 - 0.8 mm into the still wet WAKOL PU 280 Moisture Barrier. After the WAKOL PU 280 Moisture Barrier is cured (at least 2 hours), sweep and vacuum the surplus sand.

LOBA Roller Microfiber 60-80 or ¼" short nap roller	approx. 400 sq.ft./gal. per coat
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\*Coverage is dependent on the surface structure and porosity of the substrates

## Symbols



<https://www.wakol-usa.com/symbol>

## Disclaimer

The responsibility of the suitability of Wakol products for each individual case cannot be assumed, as the manufacturer has no influence on the proper application of the product by the installer and/or contractor. The directions for use were established based on 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.

All Wakol Technical Data Sheets can be found at [www.loba-wakol.com](http://www.loba-wakol.com).

This Technical Information of 11/15/2023 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](mailto:technical@loba-wakol.com).