

# WAKOL MS 230 Wood Flooring Adhesive, flexible

## Product Data Sheet

### Description

Flexible, premium single component adhesive for the interior installation of

- 3/4" solid wood strip as well as wood planks up to 4" wide of north American species
- Engineered wood flooring with no limitations
- WAKOL TS 102 Sound Dampening Underlayment
- WAKOL RP 104 Decoupling Sheet

With WAKOL B5 All-in-One blade suitable as All-in-One adhesive with an integrated moisture barrier exclusively for types of wood flooring with tongue and groove to block moisture in unheated concrete slabs up to 12 lbs. /1000 sq. ft. / 24 hour (ASTM F 1869) or up to 90% rH (ASTM F 2170-02).

### Special Features



- 1) based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMICODE EC1 PLUS: 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
- easy to spread
- long working time
- can be used as All-In-One adhesive
- economical
- very easy clean up
- suitable for radiant heated floors
- can be used directly over WAKOL PU 280 Moisture Barrier or WAKOL MS 330 Moisture Barrier



### Properties

Base:	Modified Silane Polymer
VOC content:	0g/l, US regulatory
ASTM E 96-05:	Water Vapor Transmission (WVT) 0,293 g/m <sup>2</sup> x h @ approx. 39 mils. Permeance (perms) 0,99 @ approx. 39 mils

E-Modulus:	73 psi (0.5 N/mm <sup>2</sup> ) @ 25% elongation
Cleaning agent	WAKOL RT 5960 Cleaning Towels before adhesive is cured. Cured adhesive can be easily removed manually.
Flash time:	None, no waiting time required
Working time:	Approx. 40 minutes
Curing time:	Light foot traffic after 6 to 8 hours, full traffic after 24 to 48 hours depending on room climate on job site
Shelf life:	18 months in unopened container at 70° F / 21° C, freeze thaw stable

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

	Wakol Trowel smooth subfloor	Wakol Trowel rough subfloor	Generic alternative	Coverage
3/4" Solid wood strip	WAKOL B3  1/8" by 1/8" by 1/8" V- notch	WAKOL B13  1/4" by 1/2" by 1/4" V-notch	1/4" by 1/4" by 7/16" V- notch	up to 70 sq. ft. / gal.
3/4" Solid wood plank up to 4"	WAKOL B13  1/4" by 1/2" by 1/4" V-notch		1/4" by 1/4" by 7/16" V- notch	up to 50 sq. ft. / gal.
Engineered wood <1/2" thick	WAKOL B3  1/8" by 1/8" by 1/8" V- notch	WAKOL B5  3/16" by 1/2" by 1/4" V- notch	1/4" by 1/4" by 9/16" V-notch	up to 70 sq. ft. / gal.
Engineered wood >1/2" thick	WAKOL B5  3/16" by 1/2" by 1/4" V-notch	WAKOL B13  1/4" by 1/2" by 1/4" V-notch	1/4" by 1/4" by 9/16" V-notch	up to 70 sq. ft. / gal.
WAKOL TS 102 Sound Dampening Underlayment	WAKOL B1  5/64" by 3/32" by 7/64" V-notch		3/32" by 3/32" by 3/32" V-Notch	up to 100 sq. ft. / gal.

	Wakol Trowel smooth subfloor	Wakol Trowel rough subfloor	Generic alternative	Coverage
WAKOL RP 104 Decoupling Sheet	WAKOL B5  3/16" by 1/2" by 1/4" V-notch		1/4" by 1/4" by 9/16" V-notch	up to 70 sq. ft. / gal.
All-in-One System Wood Flooring with groove and tongue	WAKOL All in one blade  3/16" by 1/2" by 1/4" V-notch			up to 35 sq. ft. / gal.

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

Adhesive transfer to floor backing minimum 90 %

## Subfloors

All surfaces must meet the NWFA 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. Remove any curing and parting compounds, surface hardeners and sealers which are known to interfere with the adhesive bond to concrete, as well as loosely bonded toppings, primers or any other substances that may prevent or reduce adhesion.

### New concrete

New 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>).

Before starting installations on concrete subfloors, moisture test must be conducted. Emission of moisture through the subfloor should not exceed 3 pounds / 1.000 sq. ft. / 24 hours (ASMT F 1869) or 75% RH (ASTM F 2170-02).

Alternatively WAKOL MS 230 Wood Flooring Adhesive, flexible can also be used for the installation of wood flooring with T&G by utilizing WAKOL All in one blade on moist concrete slabs up to 12 lbs. /1000 sq. ft. / 24 hours (ASTM F 1869) or up to 90% rH (ASTM F 2170-02).

The installation of bamboo products over concrete requires two coats of WAKOL PU 280 Moisture Barrier regardless of the moisture content of the concrete.

### Wood subfloors / underlayment

OSB, plywood, particle board and wooden planks which are approved from the manufacture as underlayment for wood floor installation. Confirm minimum total thickness of wood substrates required by flooring manufacturer.

## 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 grit sandpaper to ensure a mechanical bond.

## **Application**

Spread adhesive evenly and uniformly using the recommended trowel. Install flooring into wet adhesive and press firmly. Ensure an adhesive transfer of minimum 90%.

Follow NWFA Guidelines to allow for expansion joints.

Clean tools and equipment with WAKOL RT 5960 Cleaning Towels before adhesive is cured. Cured adhesive can be easily removed manually from finished surface.

## **Important Information**

Jobsite conditions must meet NWFA 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 to acceptable job-site conditions.

If a primer is needed prior to the installation with WAKOL MS 230 Wood Flooring Adhesive, flexible use WAKOL PU 280 Moisture Barrier or WAKOL MS 330 Moisture Barrier exclusively.

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

## **Disclaimer**

The responsibility of the suitability of the adhesive 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 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.

The latest version of this product data sheets can be found at [www.loba-wakol.com](http://www.loba-wakol.com). This Technical Information of 09/14/2020 supersedes all previous versions.