

# WAKOL MS 290 Wood Flooring Adhesive, firm

## Product Data Sheet

### Description

Firm, premium single component adhesive for the interior installation of

- 3/4" solid wood strip as well as wood planks
- Bamboo flooring strand-woven or engineered
- End grain block
- Finger parquet
- Engineered wood flooring with no limitations
- WAKOL TS 102 Sound Dampening Underlayment
- WAKOL RP 104 Decoupling Sheet
- Floating cork planks with wood, MDF or natural cork backing if glue down installation is approved from the manufacturer

### 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) Tested Product system with Loba coatings, with system guarantee
- 5) Meets criteria of Californian South Coast Air Quality Management District, rule 1168
- 6) Meets criteria of Bay Area Air Quality Management District

- zero VOC
- solvent free, water free
- very high tensile strength
- superior inner strength (E-Modulus)
- very easy clean up
- approved for radiant heated floors
- can be used directly over WAKOL PU 280 Moisture Barrier

### Properties

Base: Modified Silane Polymer  
 VOC content: 0g/l, US regulatory  
 E-Modulus: 652 PSI (4.5 N/mm<sup>2</sup>) @ 20 % elongation

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

Cleaning agent WAKOL RT 5960 Cleaning Towels before adhesive is cured.  
Cured adhesive can be easily removed manually.

Shelf life: 1 year in unopened container at 70 °F / 21 °C, freeze thaw stable

Application and coverage<sup>7)</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" -notch	1/4" by 1/4" by 7/16" V- notch	up to 70 sq. ft. / gal.
3/4" Solid wood plank	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 Trowel smooth subfloor	Wakol Trowel rough subfloor	Generic alternative	Coverage
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 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.
Floating cork planks with wood, MDF or natural cork backing	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.

7) Coverage is dependent on surface structure and absorbability of subfloor

Adhesive transfer to floor backing minimum 90 %

### Subfloors

All surfaces must meet the NFWA 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).

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 / underlayments

OSB, plywood, particle board and wooden planks which are approved from the manufacture as underlayment for wood floor installation.

### 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**

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. Acclimatize materials during cold periods properly.

Do not use adhesive below grade with excessive moisture or hydrostatic pressure. Acclimatize materials during cold periods properly.

If a primer is needed prior to the installation with WAKOL MS 290 Wood Flooring Adhesive, firm use WAKOL PU 280 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 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 08/06/2014 supersedes all previous versions.