

## 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

#### Special Features

- zero VOC
- solvent free, water free
- easy to trowel
- long working time
- can be used directly over WAKOL PU 280 Moisture Barrier
- economical
- very easy clean up
- Connected Systems
- for radiant heated floors



#### Properties

Base:	Silane modified polymer
VOC content:	None
Cleaning agent	WAKOL RT 5960 Cleaning Towels before adhesive is cured. Cured adhesive can be easily removed manually.
Open time:	None, no waiting time required
Working time:	Approx. 40 minutes
Trowels and coverage:	3/4" Solid wood strip trowel WAKOL B3, WAKOL B11 or 1/4" by 1/4" by 7/16" V- notch coverage up to 70 sq ft / gal.  3/4" Solid wood plank up to 4 inches wide trowel WAKOL B11 or 1/4" by 1/4" by 7/16" V- notch coverage up to 50 sq ft / gal.  Engineered wood <1/2" thick trowel WAKOL B3, WAKOL B5 or 1/4" by 1/4" by 9/16" V-notch coverage up to 70 sq ft / gal.  Engineered wood >1/2" thick trowel WAKOL B5 or 1/4" by 1/4" by 9/16" V-notch coverage up to 65 sq ft / gal.

Jobsite conditions: Adhesive transfer to wood floor backing min. 90%  
Should be according to NWFA recommendations. Doors and windows should 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

Curing time: Curing takes approximately 24 hours depending on room climate on job site

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

Connected systems:



LEED credits under 4.1



## Subfloors

All surfaces shall be 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 and sealers which are known to interfere with the adhesive bond to concrete, as well as loosely bonded toppings, primers or any other deleterious substances that may prevent or reduce adhesion.

Prior to the installation check any subfloor properly according to NWFA guidelines.

### New concrete:

New concrete floors should 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>) or 75% RH (ASTM F 2170-02).

Before starting installations on concrete subfloors, moisture test must be conducted. The Anhydrous Calcium KIT (calcium-chloride) has been designed to produce qualitative and quantitative results. Moisture level of the subfloor should not exceed 3 pounds / 1.000 sq.ft. / 24 hours (1,36 kg / 93 m<sup>2</sup> / 24 hours) according to calcium chloride test (ASTM F-1869) or 75% RH according to ASTM F 2170-2.

For installations on moist concrete subfloors with moisture emission up to 18 pound / 1.000 sq ft / 24 hours (calcium chloride test) or up to 95% 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 (calcium chloride test) or up to 90% RH (ASTM F 2170-02) apply one coat of WAKOL PU 280 Moisture Barrier prior to the installation.

Alkali salts can be carried to the surface of concrete subfloors during curing or where excessive moisture conditions exist. These deposits can create adhesive bond failures. The suitability of the slab can be determined with the use of pH testing paper or sticks. It is suitable to install the flooring if the pH is under 10.

Wood subfloors / underlayments:

Preferred underlayments, such as plywood, particle board with 40 lb. per cu. ft. density, and OSB (oriented strand board) should have the APA trademark and be recommended or guaranteed by the underlayment's manufacturer or the wood flooring's manufacturer. The subfloor over which the underlayment will be installed must be smooth, dry, properly fastened and free of joint swelling, warping or delamination, multiply and tectply underlayments have been approved as is APA – AC/BC EXTERIOR.

**Other subfloors:**

Existing cement terrazzo and ceramic tiles must have full adhesion to the subfloor. Remove all residues of maintenance agents and other materials that may deteriorate a good adhesion.

**Application**

Spread adhesive evenly and uniformly using the recommended trowel. Lay wood flooring into wet adhesive and press firmly. Occasionally lift a piece of wood flooring to assure an adhesive transfer of minimum 90%.

No traffic on installed areas allowed within first 6 to 8 hours. Full traffic allowed after complete curing of the adhesive (24 to 48 hours depending on room temperature).

Provide for expansion and control joints.

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

Ensure that the finished surface of the flooring is not harmed. Adhesive is extremely difficult to remove once cured.

Trowel WAKOL B 3



Trowel WAKOL B 5



Trowel WAKOL B 11



**General Information**

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 230 Wood Flooring Adhesive, flexible use WAKOL PU 280 Moisture Barrier exclusively.

## **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.

This Technical Information of 20.03.2012 supersedes all previous versions.