

Technical Data Sheet
**WAKOL Z 647 Filling/Ramping
Compound**



- Install floor covering in 1 hour
- Can be walked on in 1 hour
- Remixable
- Excellent for ramping and sloping
- Hardens quickly
- Easy to mix and apply
- Up to 100% rH** (See below for details)



Specifications

Raw material base: Special cement/quartz mixture with synthetic additive
Type: Cementitious, self-drying trowel grade patching compound for ramping and sloping of substrate
Color: Grey
Odor: None to negligible
VOC Content: 0 g/l US regulatory
Working Time: Approx. 30 minutes
Dry Time: Most floor coverings: 1 hour
Engineered Wood Flooring: 16 hour
Pot Life: 30 minutes at 70°F / 21°C
Compressive strength: 4,200 PSI at 28 days
Flexural strength: 1,000 PSI at 28 days
Cleaning agent: Water before product dries
Shelf life: 9 months in unopened container at 70°F / 21°C
Freez/thaw stable: No. Do not freeze
Unit Size: 40 lbs. bag
Unit Weight: 40 lbs. ea.
Units per pallet: 64 pieces
Item Number: WA-FL-196-L

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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.

If a moisture barrier or primer is needed prior to the installation with WAKOL Z 647 Filling/Ramping Compound, use WAKOL PU 280 Moisture Barrier or WAKOL MS 330 Moisture Barrier exclusively.

WAKOL Z 647 Filling/Ramping Compound can be used above grade, on grade, and below grade. Do not use on subfloors with excessive moisture or hydrostatic pressure.

Store in a cool, dry area. Do not leave material exposed to sun.

**Approved for concrete substrates up to 100% rH when used in conjunction with WAKOL PU 280 Moisture Barrier.

Recommended Use – Commercial and residential interior installations

- Over concrete subfloors only
- Over absorbent and non-absorbent concrete substrates with the appropriate primer
- Over properly prepared and structurally sound Ceramic tile and terrazzo
- For use prior to the installation of all floorcoverings

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 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.

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 / cm²).

- Before starting installations on concrete subfloors, moisture test must be conducted. Emission of moisture through the subfloor should not exceed 3 pounds / 1,000 sqft / 24 hours (ASTM F1869) or 80% rH (ASTM F2170).

*For concrete substrates higher than 80% rh, it is required to first apply WAKOL PU 280 Moisture Barrier or WAKOL MS 330 Moisture Barrier.

Gypsum (and other moisture sensitive substrates)

Do not apply WAKOL Z 647 Leveling Compound directly over gypsum 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 followed by a coat of WAKOL D 3045 Special Primer.

Wood subfloors / underlayment

Do not apply directly over Wood subfloors / underlayment.

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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.

Primers

Absorbent substrates

- Use WAKOL D 3003 Dispersion Primer (Please check Technical Data Sheet for details)
- Use WAKOL D 3004 Primer Concentrate (Please check Technical Data Sheet for details)

Non-absorbent substrates

- Use WAKOL D 3045 Special Primer (Please check Technical Data Sheet for details)
- Use WAKOL D 3004 Primer Concentrate (Please check Technical Data Sheet for details)

WAKOL PU 280 Moisture Barrier or WAKOL MS 330 Moisture Barrier

NOTE: WAKOL PU 280 Moisture Barrier and WAKOL MS 330 Moisture Barrier will create a non-absorbent substrate. Observe instructions for non-absorbent substrates. For application over WAKOL PU 280 Moisture Barrier, WAKOL D 3045 Special Primer must be applied prior to using WAKOL Z 647 Filling/Ramping Compound (Please check Technical Data Sheet for details).

Application and Coverage*

Mixing a 40-pound bag: Pour 4 quarts of clean, cold water into a mixing container. Then add one 40-pound bag of WAKOL Z 647 Filling/Ramping Compound into the container. Using a 1/2" (12 mm) mixing paddle and a heavy-duty drill (min. 650 rpm) mix thoroughly for approx. 2-3 minutes or to a lump-free consistency.

Mixing small quantities; use 3.5 parts of powder to 1 part water by volume, mix thoroughly for 2-3 minutes. Just prior to application on the substrate, the mix should be stirred again to ensure a smooth, lump-free consistency. Using a steel trowel, apply the mixture to the substrate. Protect WAKOL Z 647 Filling/Ramping Compound from direct sunlight and drafts.

DO NOT overwater. Too much water will weaken the product and it will lose its strength.

The pot life is 30 minutes at 70°F / 21°C. If surface skinning occurs during this time, remix before using. Do not add more water. Protect WAKOL Z 647 Filling/Ramping Compound from direct sunlight and drafts.

- Install at a minimum thickness of 1/32"
- Install at a maximum thickness of 3" with aggregate over absorbent substrate
- An aggregate is necessary when applying at a depth greater than 1" (up to 3").
- 25 sqft/bag at 1/4" thickness
- 50 sqft/bag at 1/8" thickness
- Walkable in 1 hour
- Install textile and resilient flooring coverings after 1-2 hours
- Install wood flooring and moisture curing adhesives after 16 hours

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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. This Technical Information of 10/24/2024 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.