

KER 101 GRAY/KER 102 WHITE KERABOND



PREMIUM FLOOR AND WALL DRY-SET MORTAR
MEETS ANSI A118.1 REQUIREMENTS



DESCRIPTION

A premium floor and wall dry-set mortar with outstanding bond strength. This special blend of Portland cement, select inert fillers and advanced chemical additives results in a mortar with excellent sag resistance and adjustability. Contractors appreciate its long open time and ease of application.

USES

1. Designed for interior and exterior floor and wall installations of vitreous, semi-vitreous, and non-vitreous ceramic tiles, ceramic mosaics, quarry tiles, pavers, and natural stone tiles.
2. For installations in freeze/thaw environments or with special substrates, use KERABOND with undiluted KERALASTIC or other polymer additives. (See KERALASTIC and other polymer additive data sheets for details.)
3. For installation over smooth, steel-troweled concrete, glass, vinyl asbestos tile (residential and light commercial use only) or old cutback adhesive (residential and light commercial use only), and for use over exterior grade plywood (interior dry floor areas only), use KERABOND with KERALASTIC.
4. For setting impervious or glass like tiles, gauged slate, polished back marble, granite or porcelain tile, use KERABOND with KERALASTIC.

LIMITATIONS

1. Do not apply over presswood, particle board, chipboard, masonite, Lauan, gypsum floor patching compounds or similar dimensionally unstable substrates. May be used over properly prepared exterior grade plywood (interior residential floors and countertops in dry areas only) when undiluted KERALASTIC is added.
2. Do not use for setting Rosso Levanto and Negro Marquina marble or green marble or green granite and their agglomerates. Use PLANICRETE®W or KERAPOXY®. When installing light colored and translucent marble, and their agglomerates, use WHITE GRANI/RAPID or WHITE KERAQUICK M. (See data sheets for details) on balconies, outside porches, roof decks, exterior walls, etc.

Note: Marble, granite, and slate are products of nature made from a vast combination of minerals and chemicals which may cause the material to behave or react in a manner beyond our control. Neither do we have control over any of the materials and process used in the manufacturing of agglomerates. Therefore, determine the suitability of all the materials before proceeding with the installation.

3. Do not use at temperatures below 40°F (4°C).

RECOMMENDED SUBSTRATES

- Fully cured concrete (at least 28 days old)
- Masonry block
- Cement mortars/leveling coats
- Gypsum wallboard
- Cementitious backer units
- Properly prepared cement terrazzo
- Properly prepared existing ceramic tile

NOTE

Consult our technical department for installation over other substrates and under special conditions.

SETTING INSTRUCTIONS

1. SURFACE PREPARATION

SEE SURFACE PREPARATION SHEET [A]

2. MIXING

2.1 In a clean mixing container:

2.1.1 **25 lbs. bag (11,3 kg):** Pour in approx. 3 US qts. (3 L) of cold water or 1 US gal. (3,7 L) KERALASTIC, gradually add 25 lbs. (11,3 kg) bag of KERABOND powder while slowly mixing.

2.1.2 **50 lbs. bag (22,7 kg):** Pour in approx. 1 1/2 US gal. (5,7 L) cold water or 2 US gal. (7,5 L) KERALASTIC, and gradually add 50 lbs. (22,7 kg) of KERABOND powder while slowly mixing.

2.2 Use a low speed mixer (approx. 300 RPM).

2.3 Avoid air entrainment and prolonged mixing which will shorten the pot life.

2.4 Mix thoroughly to a homogeneous and smooth consistency.

- 2.5 Let slake 10 to 15 minutes.
- 2.6 Re-stir without adding any more liquid or dry powder.
- 2.7 Some stiffening may occur before all material is used (approx. 4 hours). If so, simply re-stir by hand or machine, but do not add any liquid.
- 2.8 Wash tools and hands with water immediately after mixing.

3. APPLICATION

- 3.1 Use the recommended notched trowel (see chart) with sufficient depth to achieve an 80% minimum mortar contact to the back of the tiles for all interior applications. For exterior installations, commercial floor and shower applications, and when installing marble, granite and agglomerate tile floors, achieve coverage in accordance with applicable ANSI specifications and TCA guidelines.
- 3.2 Using the flat or straight edge of the trowel, apply a thin pressure-applied coat to the substrate. Follow immediately with additional material then comb the mortar using the notched side of the trowel to achieve an even setting bed. Do not spread more material than can be covered with tiles within 20 minutes [approx. 20 sq. ft. (2m²)].
- 3.3 In hot or dry conditions, take precautions to ensure that the mortar does not flash set. Cooling a concrete slab with water prior to the installation may be beneficial. Remove all excess water prior to applying the mortar. Also, using cold water or cooling the latex additive will aid in the installation. Set tiles before skinning occurs. If skinning occurs, scrape off and replace with fresh mortar. Place tiles firmly in position with a slight twisting motion to ensure good contact with the mortar.
- 3.4 Follow immediately with proper and thorough beat-in to flatten ridges or notches into a continuous bed, allowing at least 25% of the thickness of each tile to be imbedded in the KERABOND mortar.
- 3.5 Make all alignments and adjustments immediately following beat-in. Do not exceed 30 - 45 minutes.
- 3.6 Clean all joints and wipe smudges from the tile face with a damp towel.
- 3.7 Do not disturb, grout or walk over tiles for at least 48 hours after installation.
- 3.8 Wash tools and hands with water while material is still fresh.

4. EXPANSION AND CONTROL JOINTS

- 4.1 Provide for expansion and control joints where specified.
- 4.2 Do not cover any expansion joints with mortar.
- 4.3 Cut tiles on both sides along the edges of expansion joints.
- 4.4 Protect tilework with metal strips along both edges of structural building expansion joints.
- 4.5 Insert the specified compressible bead and sealant for expansion and control joints.

5. GROUTING

Allow tiles to reach a firm set then grout with the appropriate MAPEI grout.

6. PROTECTION

6.1 General

- 6.1.1 Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- 6.1.2 Do not immerse in water and protect from freezing for at least 21 days after completion of tilework.

6.2 Floors: Keep free from general traffic for at least 72 hours after installation. Plywood or stepping boards may be used after 24 hours when occasional stepping on the floor is unavoidable.

6.3 Walls: Protect from impact, vibrations and heavy hammering on adjacent and opposite walls for at least 14 days after installation.

TECHNICAL DATA

Pot life at 72°F (22°C)	Approx. 4 hours
Open time at 72°F (22°C)	20 to 30 minutes
Initial cure at 72°F (22°C)	24 hours
Final cure at 72°F (22°C)	28 days
Shear strength per ANSI A118.4 tests (28 day test) :	
Non-vitreous tiles	300 psi (2,1 MPa)
Vitreous tiles	358 psi (2,5 MPa)
Linear shrinkage	<0.5 %
Cleanability	With water while fresh

PACKAGING

25 lbs. (11,3 kg) bag ; 50 lbs. (22,7 kg) bag

SHELF LIFE

12 months when stored in original container in a dry, well-ventilated area.

COLOR

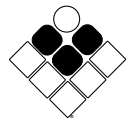
Gray or White

APPROXIMATE COVERAGES

Square-notched trowel	1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	1/4" x 3/8" x 1/4" (6 x 10 x 6 mm)
25 lbs. bag (11,3 kg) bag	45 - 50 sq. ft. (3,7 - 4,6 m ²)	30 - 35 sq. ft. (2,8 - 3,3 m ²)
50 lbs. bag (22,7 kg) bag	80 - 90 sq. ft. (7,4 - 8,4 m ²)	60 - 65 sq. ft. (5,6 - 6,6 m ²)

NOTE

Coverages shown are approximate and are given for estimating purposes only. Actual job-site coverages may vary according to tile size and thickness, job conditions and setting practices. For coverage values not shown in this table, contact MAPEI's Technical Service Department.



Ceramic Tile Distributors Association

CTDA



NOTICE

We shall not be liable for incidental and consequential damages, as defined under the uniform commercial code, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was, or reasonably should have been discovered.

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