



# Kerabond™

Premium-grade, dry-set mortar



Meets or exceeds ANSI A118.1 requirements when mixed with water, and ANSI A118.4 or ANSI A118.11 requirements when mixed with *Keralastic™*



## CLASSIFICATION IN COMPLIANCE WITH ISO 13007

When mixed with water, *Kerabond* is C1 = normal cementitious adhesive. When mixed with *Keralastic*, *Kerabond* is C2ES2P2 = improved (2) cementitious (C) adhesive with extended (E) open time, highly deformable (S2) and with improved adhesion to exterior-grade plywood (P2).

## DESCRIPTION

*Kerabond* is a premium-grade dry-set mortar for use in most interior and exterior residential floor and wall applications. This premium mortar is part of the *Kerabond/Keralastic™* high-performance mortar system.

## USES

- Designed for interior and exterior floor and wall installations of vitreous, semivitreous and nonvitreous ceramic tiles, ceramic mosaics, quarry tiles, pavers, and natural-stone tiles.
- For installations in freeze/thaw environments or with special substrates, use *Kerabond* with undiluted *Keralastic* or other polymer additives. (See the Technical Data Sheets for *Keralastic* and other polymer additives for details.)
- For installation over smooth, steel-troweled concrete, glass, vinyl asbestos tile (VAT) (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/Keralastic*.

- For setting impervious or glass-like tiles, gauged slate, polished-back marble, granite or porcelain tile, use *Kerabond/Keralastic*.

## TECHNICAL NOTES

- Do not apply over presswood, particleboard, chipboard, Masonite, Luan, 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.
- Do not use for setting Rosso Levanto and Negro Marquina marble or green marble or green granite and their agglomerates. Instead, use *Planicrete® W* or *Kerapoxy®*. When installing light-colored and translucent marble, and their agglomerates, use white *Granirapid®* or white *Ultraflex® RS* (see Technical 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 that may cause the material to behave or react in a manner beyond our control. Likewise, we do not have control over any of the materials and processes used in the manufacturing of agglomerates. Therefore, determine the suitability of all the materials before proceeding with the installation.

- 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
- Cement backer units
- Properly prepared cement terrazzo
- Properly prepared existing ceramic tile

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## INSTRUCTIONS

### 1. Surface Preparation

See MAPEI's "Surface Preparation Requirements" document.

### 2. Mixing

#### 2.1 Into a clean mixing container:

2.1.1 For a 25-lb. (11,3-kg) bag : Pour about 3 U.S. qts. (2,84 L) of cold water or 1 U.S. gal. (3,79 L) of *Keralastic*™. Gradually add 25 lbs. (11,3 kg) of *Kerabond* powder while slowly mixing.

2.1.2 For a 50-lb. (22,7-kg) bag: Pour about 1-1/2 U.S. gals. (5,68 L) cold water or 2 U.S. gals. (7,57 L) of *Keralastic*. Gradually add 50 lbs. (22,7 kg) of *Kerabond* powder while slowly mixing.

- 2.2 Use a low-speed mixer (at about 300 rpm).
- 2.3 Avoid air entrapment and prolonged mixing, which will shorten the pot life.
- 2.4 Mix thoroughly to a homogenous and smooth consistency.
- 2.5 Let sit ("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 (about 4 hours). If so, simply re-stir by hand or machine, but do not add any liquid.
- 2.8 Wash hands and tools with water immediately after mixing.

### 3. Application

- 3.1 Use the typical notched trowel (see chart) with sufficient depth to achieve at least 80% mortar contact to the back of the tiles for all interior applications. For exterior installations as well as 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 (about 20 sq. ft. [1,86 m<sup>2</sup>]).
- 3.3 In hot or dry conditions, take precautions to ensure that the mortar does not flash-set. Cooling a concrete slab with water before the installation may be beneficial. Remove all excess water before 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 skin 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 embedded in the *Kerabond* mortar.
- 3.5 Make all alignments and adjustments immediately following beat-in. Do not exceed 30 to 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 hands and tools 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 Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins. Protect from freezing and do not immerse in water 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.

## TECHNICAL DATA

References: Meets or exceeds ANSI A118.1 requirements when mixed with water, and ANSI A118.4 or ANSI A118.11 requirements when mixed with *Keralastic™*.

Pot life at 73°F (23°C) .....	About 4 hours
Open time at 73°F (23°C) .....	20 to 30 minutes
Initial cure at 73°F (23°C) .....	24 hours
Final cure at 73°F (23°C) .....	28 days
Shear strength per ANSI A118.4 tests (at 28 days)	
Nonvitreous tiles .....	300 psi (2,07 MPa)
Vitreous tiles .....	358 psi (2,47 MPa)
Linear shrinkage .....	< 0.5%
Cleanability .....	With water while fresh
Shelf life .....	12 months when stored in original container in a dry, well-ventilated area
Colors .....	Gray; white
Health and safety .....	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

## PACKAGING

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

## TYPICAL TROWELS AND APPROXIMATE COVERAGES\*

### Per 25-lb. (11,3-kg) bag

1/4" x 1/4" x 1/4" .....	45 to 50 sq. ft.
(6 x 6 x 6 mm) .....	(4,18 to 4,65 m <sup>2</sup> )

1/4" x 3/8" x 1/4" .....	30 to 35 sq. ft.
(6 x 10 x 6 mm) .....	(2,79 to 3,25 m <sup>2</sup> )

### Per 50-lb. (22,7-kg) bag

1/4" x 1/4" x 1/4" .....	80 to 90 sq. ft.
(6 x 6 x 6 mm) .....	(7,43 to 8,36 m <sup>2</sup> )

1/4" x 3/8" x 1/4" .....	60 to 65 sq. ft.
(6 x 10 x 6 mm) .....	(5,57 to 6,04 m <sup>2</sup> )



\* Trowel dimensions are width/depth/space. 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.

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

**Kerabond™**

**NOTICE**

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. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

**MAPEI**

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