



# Kerabond®

## Premium Tile Mortar



### DESCRIPTION

*Kerabond* is a premium-grade, dry-set mortar for use in interior/exterior residential and commercial floor and wall applications when mixed with water.

### FEATURES AND BENEFITS

- For tile and stone on floors and walls
- Great for most substrates, tile and stone when mixed with *Keralastic*® (see *Kerabond/Keralastic*™ System's Technical Data Sheet for more details)

### INDUSTRY STANDARDS AND APPROVALS

- ISO 13007: When mixed with water, classification C1
- ANSI: When mixed with water, exceeds ANSI A118.1 bond strength requirements

### WHERE TO USE

- Most interior/exterior residential and commercial installations on floors and walls
- Installation of most ceramic tile, quarry tile, pavers and Saltillo tile
- To set cement backer units (CBUs), see manufacturer's installation guidelines.

### LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble, some limestone and granite), agglomerate tiles, cultured marble or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives (see the respective Technical Data Sheet for more information).

- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See "Suitable Substrates" section below.
- Do not use for installations subject to prolonged water immersion.
- Not recommended for areas subject to severe freeze/thaw conditions. Instead, use a liquid latex additive mortar system.

### SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats

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

### SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- See MAPEI's Surface Preparation Requirements document for tile and stone installation systems at [www.mapei.com](http://www.mapei.com).

### MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Into a clean mixing container, pour about 6 U.S. qts. (5.68 L) of clean potable water.



2. Gradually add 50 lbs. (22.7 kg) of powder while slowly mixing.
3. Use a low-speed mixing drill (at about 300 rpm), with an angled cross-blade mixer or double box mixer. Mix thoroughly until mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.
4. Let mixture stand ("slake") for 10 minutes.
5. Remix.
6. If mixture becomes heavy or stiff, remix without adding more liquid.

## PRODUCT APPLICATION

1. Choose a notched trowel (see "Typical Trowels and Approximate Coverage" chart below) with sufficient depth to achieve > 80% mortar contact to both the tile and substrate for all interior applications, and > 95% for exterior installations, commercial floor and wet applications. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCNA Handbook guidelines.)
2. With pressure, apply a coat by using the trowel's flat side to key mortar into substrate.
3. Apply additional mortar, combing it in a single direction with the trowel's notched side.
4. Spread only as much mortar as can be tiled before product skins over. Open time can vary with jobsite conditions.
5. Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
6. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

## EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Detail EJ171, or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortars.

## CLEANUP

- Clean tools and tiles with water while the mortar is fresh.

## PROTECTION

- Protect from traffic for 24 hours. Protect from heavy traffic for 7 days.
- Protect from rain for 7 days.

## ISO 13007 Classification

Classification Code	Classification Requirement
C1 (cementitious, normal adhesive)	≥ 72.5 psi (0.5 MPa) after standard aging, heat aging, water immersion and freeze/thaw cycles

## ANSI Specifications

Test Method	Specification Standard	Test Results
ANSI A118.1 – shear strength, impervious ceramic (porcelain) mosaics	>150 psi (1.03 MPa) at 28 days	170 to 190 psi (1.17 to 1.31 MPa)
ANSI A118.1 – shear strength, glazed wall tile	>250 psi (1.72 MPa) at 28 days	290 to 360 psi (2 to 2.48 MPa)
ANSI A118.1 – shear strength, quarry tile to quarry tile	>100 psi (0.69 MPa) at 28 days	230 to 300 psi (1.59 to 2.07 MPa)

## Shelf Life and Application Properties\* at 73°F (23°C) and 50% relative humidity



Shelf life	1 year
Open time*	20 to 30 minutes
Pot life*	> 2 hours
Time before grouting*	24 hours
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

\* Open time, pot life and time before grouting vary based on jobsite conditions.

## Packaging

Size and Color
Bag: 50 lbs. (22.7 kg), gray
Bag: 50 lbs. (22.7 kg), white

## Typical Trowels and Approximate Coverage\*\* per 50 lbs. (22.7 kg)

Typical Trowel	Coverage
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 	75 to 90 sq. ft. (6.97 to 8.36 m <sup>2</sup> )
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) 	55 to 65 sq. ft. (5.11 to 6.04 m <sup>2</sup> )

\*\* Trowel dimensions are width/depth/space. Actual coverages will vary according to substrate profile and tile type.

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## RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for tile and stone installation systems\*

\* At [www.mapei.com](http://www.mapei.com)

Refer to the SDS for specific data related to health and safety as well as product handling.

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