



Kerabond™ T

Premium Medium-Bed and Thin-Set Tile Mortar



DESCRIPTION

Kerabond T is a premium-grade, nonsag, nonslump mortar for use in thin-set and medium-bed applications in interior/exterior residential and commercial floors and walls 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 T / Keralastic* System's Technical Data Sheet [TDS] for more details)

INDUSTRY STANDARDS AND APPROVALS

ISO 13007: Classification C1T

ANSI: Exceeds ANSI A118.1 requirements

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants	1 point
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems	1 point

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

When mixed with water:

- For installing most ceramic, quarry, paver, Saltillo and dimensionally stable natural-stone tiles
- For most interior/exterior residential and commercial wall/floor

installations

- For installations subject to intermittent water exposure
- For large format tile and stone

When mixed with *Keralastic* (see the TDS for *Kerabond T / Keralastic* for details):

- All the uses above, plus the following:
 - For installing glass and porcelain tiles
 - For installations in freeze/thaw environments, in submerged conditions or with special substrates
 - For all residential, heavy commercial and industrial installations

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 TDS 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), gypsum floor-patching or unprimed gypsum leveling compounds, substrates containing asbestos, or metal. See "Suitable Substrates" section below.
- Do not use for installations subject to prolonged water immersion.
- *Kerabond T* is not recommended for areas subject to severe freeze/thaw conditions. Instead, use *Kerabond T / Keralastic*.



- For improved performance and longevity, mix with *Keralastic* instead of water.

SUITABLE SUBSTRATES

When mixed with water:

- Concrete (cured at least 28 days)
- Brick and masonry cement block
- Cement mortar beds and leveling coats
- Cement terrazzo (properly prepared)

When mixed with *Keralastic*:

- All the substrates above, plus:
 - Gypsum wallboard and plaster (properly prepared and primed)
 - Cement backer units (see manufacturer for recommendations)
 - Installations over properly prepared and well-bonded ceramic and porcelain tile, quarry tile and pavers (interior and dry conditions only)
 - Interior installations over plastic laminate countertops, vinyl composition tile (VCT), cutback residue and non-cushioned sheet vinyl
 - APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial floors and countertops in dry conditions only)
 - MAPEI waterproofing, crack-isolation and sound-reduction membranes

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 in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Note: Choose all appropriate safety equipment before use. See the (Material) Safety Data Sheet for details.

1. Into a clean mixing container, pour about 6 to 7 U.S. qts. (5,68 to 6,62 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 for up to 2

hours without adding more liquid or powder.

PRODUCT APPLICATION

1. Choose a notched trowel (see "Approximate Product Coverage") with sufficient depth to achieve greater than 80% mortar contact with both the tile and substrate for all interior applications, and greater than 95% for exterior installations, commercial floor and wet applications. It may be necessary to back-butter tiles in order to achieve 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 the mortar into the substrate.
3. Apply additional mortar, combing it in a single direction parallel to the tile's shortest dimension 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 the trowel lines to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between the 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 recommended per TCNA Detail EJ171, or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortars.

CLEANUP

Clean tools and tile with water while mortar is fresh.

PROTECTION

- Protect from traffic for 24 to 48 hours, so that the mortar is sufficiently set. Protect from heavy traffic for 7 days.
- Protect from rain and frost for 7 days.

Product Performance Properties

ISO 13007 Classification

Classification Code	Classification Requirement
C1T (cementitious, standard adhesion)	≥ 72.5 psi (0,5 MPa) after standard aging, heat aging, water immersion and freeze/thaw cycles

ANSI Specification

Test Method	ANSI Specification	Test Results
ANSI A118.1 – shear strength, impervious ceramic (porcelain) mosaics	> 150 psi (1,03 MPa) at 28 days	200 to 280 psi (1,38 to 1,93 MPa)
ANSI A118.1 – shear strength, glazed wall tile	> 250 psi (1,72 MPa) at 28 days	300 to 380 psi (2,07 to 2,62 MPa)
ANSI A118.1 – shear strength, quarry tile to quarry tile	> 100 psi (0,69 MPa) at 28 days	250 to 350 psi (1,72 to 2,41 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 to 48 hours
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

* Open time and pot life vary based on jobsite conditions.

Packaging

Product Code	Size and Color
U.S.: 10152	50 lbs. (22,7 kg), gray
U.S.: 10252	50 lbs. (22,7 kg), white
Canada: 1015221	50 lbs. (22,7 kg), gray
Canada: 1025221	50 lbs. (22,7 kg), white

Approximate Product Coverage** per 50 lbs. (22,7 kg)

Typical Trowel	Coverage
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 	85 to 95 sq. ft. (7,90 to 8,83 m ²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) 	65 to 75 sq. ft. (6,04 to 6,97 m ²)
1/2" x 1/2" x 1/2" (12 x 12 x 12 mm) 	40 to 50 sq. ft. (3,72 to 4,65 m ²)
3/4" x 9/16" x 3/8" (19 x 14 x 10 mm) 	35 to 40 sq. ft. (3,25 to 3,72 m ²)

** Trowel dimensions are width/depth/space. Actual coverage 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	RGTO309*
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* At www.mapei.com.

Refer to the (M)SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

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.

We proudly support the following industry organizations:



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For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

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