



Keralastic™

Premium latex additive for
Kerabond™



DESCRIPTION

Keralastic is a premium-grade, high-performance, second-generation “flexible” acrylic latex admixture used to enhance the performance of *Kerabond™*. This highly recommended admixture enhances bond strength, flexural strength, elongation and freeze/thaw durability. (See *Kerabond/Keralastic™* System for complete attributes of this setting system.) To ensure proper flexibility, always use a latex additive when using a dry-set mortar for applications over plywood and for setting nonvitreous tiles. .

- Excellent for interior/exterior and wet areas
- Excellent for use over difficult surfaces

CLASSIFICATION STANDARDS

ISO 13007: The combination of *Kerabond* and *Keralastic* is C2ES2P2 = a cementitious (C) improved (2) adhesive, with extended open time (E), that is highly deformable (S2) and has improved adhesion to exterior-grade plywood (P2).

ANSI: *Keralastic* meets or exceeds ANSI A118.4 and ANSI A118.11 requirements when mixed with *Kerabond*, *Keraset®* or *Keraflor™*.

USES

- For interior and exterior installation of ceramic tile and natural stone over most approved substrates on floors, walls and ceilings

- Recommended over all traditional substrates as well as over properly prepared existing cutback adhesive (residential and light commercial use only), vinyl composition and vinyl asbestos tiles (residential and light commercial use only), noncushion-backed sheet vinyl (residential only), and exterior-grade plywood (interior residential floors and countertops in dry areas only). See MAPEI's “Surface Preparation Requirements” document.
- For setting impervious and vitreous ceramic tiles and most difficult-to-bond-to tiles, such as porcelain, glass mosaic, monocottura, quarry, paving brick, gauged slate, polished-back marble and granite
- For all residential applications, shopping malls and plazas, commercial buildings and even industrial installations

TECHNICAL NOTES

- Do not apply over particleboard, Masonite, chipboard, Lauan, gypsum floor-patching compounds, metal or similar dimensionally unstable materials.
- 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).

Note: Marble, granite and slate are products of nature made from a vast combination of minerals and chemicals that can cause the material to behave or react in a manner beyond our control. Likewise, we do not have control over any of the materials or 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).
- The *Kerabond/Keralastic* System was not designed to be a highly chemical-resistant mortar. Use *Kerapoxy* mortar for such applications (see Technical Data Sheet for details).

RECOMMENDED SUBSTRATES

- Fully cured concrete (at least 28 days)
- Masonry block
- Properly prepared existing brick
- Cement mortars and leveling coats
- Gypsum plaster
- Gypsum wallboard
- Cement backer units (CBUs)
- Exterior-grade plywood (interior residential floors and countertops in dry areas only)
- Properly prepared existing ceramic tiles
- Properly prepared existing cement terrazzo
- Glass and glass mosaics
- Cutback adhesive residue
- Vinyl composition tiles (VCT)
- Vinyl asbestos tiles (VAT)
- Noncushion-backed sheet vinyl flooring

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 In a clean mixing container:
 - 2.1.1 For a 34-lb. (15,4-kg) kit, pour in about 1 U.S. gal. (3,79 L) of *Keralastic*™ liquid. Gradually add 25 lbs. (11,3 kg) of *Kerabond*™ powder while slowly mixing.
 - 2.1.2 For a 2-U.S.-gal. (7,57-L) jug, pour in about 2 U.S. gals. (7,57 L) of *Keralastic* liquid. 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") for 10 to 15 minutes.
- 2.6 Remix without adding more liquid.
- 2.7 Some stiffening may occur before all material is used (about 4 hours). If so, simply remix 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 a typical notched trowel (see chart) with sufficient depth to achieve at least 80% mortar contact to the tile backs 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, spread a thin pressure-applied coat onto the substrate. Follow immediately with additional material, then comb the surface using the trowel's notched side for an even-setting bed. Do not spread more material than can be covered with tiles within 20 to 30 minutes (about 20 sq. ft. [1,86 m²]).
 - 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, cooling the *Keralastic* liquid will aid in the installation. Set tiles before skinning occurs. If skinning occurs, scrape off the skin and replace it with fresh mortar. Place tiles firmly into 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 into the mortar.
 - 3.5 Make all alignments and adjustments immediately following the beat-in. Do not exceed 45 to 60 minutes.
 - 3.6 Use a damp towel to clean all joints and wipe smudges from the tile face.
 - 3.7 Do not disturb, grout or walk over tiles for at least 24 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.

TECHNICAL DATA (when mixed with Kerabond™)

ISO 13007: The combination of Kerabond and Keralastic is C2ES2P2.

ANSI: Keralastic meets or exceeds ANSI A118.4 and ANSI A118.11 requirements when mixed with Kerabond, Keraset® or Keraflor™.

Pot life at 73°F (23°C)	About 4 hours
Open time at 73°F (23°C)	30 minutes
Initial cure at 73°F (23°C)	24 hours
Final cure at 73°F (23°C)	28 days
Maximum elongation	25%
Shear strength per ANSI A118.4 tests (at 28 days)	
Nonvitreous tiles	300 psi (2,07 MPa)
Vitreous tiles	358 psi (2,47 MPa)
Semivitreous tiles	350 psi (2,41 MPa)
Shear strength over plywood	563 psi (3,88 MPa) (plywood failed)
Color	Milky white
Cleanability	With water while fresh
Shelf life	24 months when stored in original containers at room temperature in a dry, heated area
Health and safety	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

PACKAGING

Kit: 34 lbs. (15,4 kg) – 1 U.S. gal. (3,79 L) of liquid, plus 25 lbs. (11,3 kg) of powder

Jug: 2 U.S. gals. (7,57 L)

Pail: 5 U.S. gals. (18,9 L)

Drum: 55 U.S. gals. (208 L)

TYPICAL TROWELS AND APPROXIMATE COVERAGES* (when mixed with Kerabond)

34-lb. (15,4-kg) kit

1/4" x 1/4" x 1/4"	40 to 45 sq. ft.
(6 x 6 x 6 mm)	(3,72 to 4,18 m²)

1/4" x 3/8" x 1/4"	30 to 35 sq. ft.
(6 x 10 x 6 mm)	(2,79 to 3,25 m²)

2-U.S.-gal. (7,57 L) jug

1/4" x 1/4" x 1/4"	80 to 90 sq. ft.
(6 x 6 x 6 mm)	(7,43 to 8,36 m²)

1/4" x 3/8" x 1/4"	60 to 70 sq. ft.
(6 x 10 x 6 mm)	(5,57 to 6,50 m²)

5-U.S.-gal. (18,9) pail

1/4" x 1/4" x 1/4"	200 to 225 sq. ft.
(6 x 6 x 6 mm)	(18,6 to 20,9 m²)

1/4" x 3/8" x 1/4"	150 to 175 sq. ft.
(6 x 10 x 6 mm)	(13,9 to 16,3 m²)

55-U.S.-gal. (208 L) drum

1/4" x 1/4" x 1/4"	2,200 to 2,475 sq. ft.
(6 x 6 x 6 mm)	(204 to 230 m²)

1/4" x 3/8" x 1/4"	1,650 to 1,925 sq. ft.
(6 x 10 x 6 mm)	(153 to 179 m²)

* Trowel dimensions are width/depth/space. Coverages shown are given for estimating purposes only. Actual job-site coverages may vary according to the type of trowel used, substrate conditions and setting practices.



- 4.4 Protect tilework with metal strips along both edges of the 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 Protect containers from freezing in transit and storage. *Keralastic* liquid is freeze/thaw-stable down to 0°F (-18°C). However, it is wise to protect all water-based products from prolonged exposure to deep freezing. If material is frozen, do not stir until it has completely thawed.
 - 6.1.2 Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
 - 6.1.3 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.
- 6.3 Walls: Protect from impact, vibrations and heavy hammering on adjacent and opposite walls for at least 14 days after installation.

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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Additional Information

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For the most current
product data, visit
www.mapei.com.



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