



KER 122 Gray / KER 123 White



KERASET

Floor and wall dry-set mortar

DESCRIPTION

A specially formulated dry-set mortar for ceramic floor and wall tile installations.

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 KERASET with KERAPLY. (See KERAPLY and other polymer additive data sheets for details.)
3. For installation over exterior grade plywood (interior dry floor areas only), use KERASET with KERAPLY.

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 KERAPLY 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.)

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

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: Pour in approx. 1 1/2 gal. (5.6 L) of cold water or 2 gal. (7.5 L) KERAPLY, gradually add 50 lb. bag of KERASET 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

TECHNICAL DATA	
Meets or exceeds ANSI A118.1 when mixed with water Meets ANSI A118.4 when mixed with KERAPLY.	
Pot life at 72°F (22°C)	Approximately 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 test	
Non-Vitreous tiles	>250 psi
Vitreous tiles	>200 psi
Linear Shrinkage	>.0.5%
Cleanability	With water while fresh
PACKAGING	50 lb. (22,7 kg) bag
COLOR	Gray and White
SHELF LIFE	
12 months when stored in original container in a dry, well-ventilated area.	
APPROXIMATE COVERAGES	
Square-notched trowel	
1/4" x 1/4" x 1/4" (6mm x 6mm x 6mm) 75 - 90 sq.ft. (7-8.4 m ²)	
1/4" x 3/8" x 1/4" (6mm x 10mm x 6mm) 55 - 65 sq.ft. (5-6 m ²)	
NOTE	
Coverage is approximate and is given for estimating purposes only. Actual job-site coverages may vary according to setting practices.	

- to flatten ridges or notches into a continuous bed, allowing at least 25% of the thickness of each tile to be embedded in the KERASET 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 or tiles.
 - 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 tile work.
 - 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**
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.

MAPEI
NORTH AMERICAN HEADQUARTERS
1501 Wall Street
Garland, TX 75041-4046
Phone: (972) 271-9500
Fax: (972) 271-9464

CUSTOMER SERVICE
1-800-42-MAPEI

TECHNICAL SERVICE
1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

UNITED STATES

Arizona
401 South Smith Road
Tempe, AZ 85281-2925
Phone: (602) 968-7722
Fax: (602) 966-9659

California
1900 East Wright Circle
Anaheim, CA 92806-6028
Phone: (714) 385-0155
Fax: (714) 978-0614

Florida
1851 N.W. 22nd Street
Ft. Lauderdale, FL 33311-2940
Phone: (954) 485-8575
Fax: (954) 485-9081

Illinois
530 Industrial Drive
West Chicago, IL 60185-1823
Phone: (630) 293-5800
Fax: (630) 293-5079

New Jersey
4980 Bordentown Avenue
Old Bridge, NJ 08857-9704
Phone: (908) 254-4830
Fax: (908) 254-2693

Virginia
300 Nelms Circle
Fredericksburg, VA 22406
Phone: (540) 310-0111
Fax: (540) 310-4887

CANADA

Québec
2900 Francis-Hughes Avenue
Laval, QC H7L 3J5
Phone: (514) 662-1212
Fax: (514) 662-0444

British Columbia
831 Cliveden Avenue
New Westminster, BC V3M 5R6
Phone: (604) 521-1843
Fax: (604) 521-6291

Ontario
351 Hanlan Road, Units 7 to 11
Vaughan, ON L4L 3T1
Phone: (905) 856-7774
Fax: (905) 856-7874

PUERTO RICO
451 Ave. Fernandez Juncos
San Juan, Puerto Rico 00901
Phone: (787) 722-7225
Fax: (787) 722-4505

VENEZUELA
1^{ra} Ave. entre 4^a y 5^a transversal
No. 1-25 Urbanizacion Montecristo
1071 Caracas, Venezuela
Phone: (58-2) 237-1669
Fax: (58-2) 237-3284