

# Natural Stone & Large Tile Premium Mortar

## 1. Product Name

Natural Stone & Large Tile Premium Mortar

## 2. Product Description

Premium quality, polymer-modified mortar for natural stone or large format tile 15" (38cm) or larger on one or more sides. Can be used for clay pavers or other thin or medium bed applications (up to 3/4" thick). Non-slumping formula minimizes lippage.

Formerly named Marble, Granite & Travertine Premium Mortar

## Key Features

- Supports large and heavy tile for flat, even floor installations
- Sag and slip resistant - immediately holds wall tiles in place
- Exceeds ANSI A118.4 and A118.11

## Suitable Substrates

- Concrete, mortar beds, masonry, Portland cement plaster
- [WonderBoard® Lite](#), cement backerboards
- Liquid-applied waterproofing membranes such as [RedGard® Waterproofing and Crack Prevention Membrane](#), [Custom® 9240](#) and [RedGard® SpeedCoat](#)
- Crack isolation sheet membranes such as [Crack Buster® Pro](#)
- Uncoupling mats such as [RedGard® Uncoupling Mat](#)
- Substrates treated with [MBP Multi-Surface Bonding Primer](#)
- Exterior Grade Plywood (interior residential and light commercial dry areas)
- Gypsum wallboard (interior dry areas)
- Existing ceramic tile (scarified)
- Fully-bonded sheet vinyl flooring (scarified)
- Plastic laminates (scarified)
- Cutback adhesive (see preparation instructions)

## Composition of Product

Natural Stone & Large Tile Premium Large Format Tile Mortar is a dry, proprietary blend of Portland cement, copolymers, inorganic aggregates and chemicals.

## Benefits of Product in the Installation

- Formulated for any natural stone and all large and heavy tile applications
- Reduces installation time and labor by eliminating lippage and minimizing the need for additional leveling
- Sag and slip resistance immediately holds wall tiles in place
- Can be used in thin-set or medium bed applications up to 3/4" (19 mm)
- Exceeds ANSI A118.4 and A118.11 standards without the need for additives

## 3. Technical Data

American National Standards Institute (ANSI) ANSI A108.5, A118.4 and A118.11 of the American National Standards for the Installation of Ceramic Tile  
ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester



**Limitations to the Product**

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic or OSB panels.
- When setting moisture sensitive natural stone, cement or agglomerate tile use EBM-Lite™ Epoxy Bonding Mortar 100% Solids or CEG-Lite™ 100% Solids Commercial Epoxy Grout.
- Do not use to install resin-backed stone use EBM-Lite™ Epoxy Bonding Mortar 100% Solids, CEG-Lite™ 100% Solids Commercial Epoxy Grout or contact Custom's® Technical Services for recommendations.
- When setting glass tile larger than 6" x 6" (15 x 15 cm), contact Custom's® Technical Services for recommendations.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Custom's® Technical Services for recommendations regarding subfloor deflection requirements.

**Bonding To Lightweight Cement and Gypsum Surfaces**

Lightweight or gypsum-based underlayments must first be treated with RedGard® Waterproofing and Crack Prevention Membrane and must obtain a minimum 2000 psi (13.8 MPa) compressive strength at the recommended cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces to be tiled must be structurally sound and subject to deflection not to exceed the current ANSI standards. All lightweight concrete and gypsum-based underlayment surfaces to receive RedGard® must be primed with properly applied sealer or a primer coat of RedGard®, consisting of 1 part RedGard® diluted with 4 parts clean, cool water. Mix in a clean bucket at low speed to obtain a lump-free solution. The primer can be brushed, rolled or sprayed to achieve an even coat. Apply the primer coat to the floor at a rate of 300 ft/gal (7.5 M/L). Drying time depends on site conditions, but is normally less than 1 hour. Extremely porous surfaces may require 2 coats. At this point, RedGard® can be applied to the primed lightweight or gypsum-based surface. Refer to the individual product data sheet or packaging directions for application instructions. Expansion joints must be installed in accordance with local building codes and ANSI/TCNA guidelines. Refer to TCNA EJ171.

**Bonding to Plywood Surfaces**

Plywood floors, including those under resilient flooring, must be structurally sound and must meet all ANSI A108.01 Part 3.4 requirements. Maximum allowable deflection: L/360 tile L/720 stone. See TCNA F150-13 tile installations, TCNA F141-13 and F250-13 for stone. For questions about proper subfloor installation requirements, call Custom® Technical Services.

**Bonding to Cutback Adhesive**

Adhesive layers must be removed, as they reduce mortar bond strength to cement surfaces. Use extreme caution; adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Adhesive residue must be wet scraped to the finished surface of the concrete, leaving only the transparent staining from the glue. To determine desirable results, do a test bond area before starting. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings", for further information.

**Movement Joint Placement**

Expansion joints and cold joints, as described in ANSI A108.01, should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant. Contact Custom® Building Products for the proper treatment of control or saw cut joints. Refer to TCNA F125, F125A and TCNA EJ171.

**Mixing Procedures**

Mix by hand or use a low 150-200 RPM speed 1/2" (13 mm) drill to achieve a smooth, paste-like consistency. Let the mixture slake or stand 5-10 minutes; stir again and use. Stir occasionally, but do not add more water. When properly mixed, troweled ridges will stand without slump.

**Mixing Ratios**

Mix 6 qts (5.67 L) clean water per 50 lb (22.68 kg) bag of mortar.

**Application of Product**

Installation must conform to ANSI A108.5. Use a properly-sized notch trowel to ensure proper coverage under tiles. Using the flat side of the trowel, apply a skim coat of mortar to the surface. With the notch side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in one direction. Press the tile firmly into place in a perpendicular motion across ridges, moving back and forth. The perpendicular motion flattens ridges and closes valleys, allowing maximum coverage. With some tile, back-buttering is advisable. Adjust the tile promptly and beat it in with a beating block and rubber mallet. Periodically pull up a tile and check the back to ensure proper adhesive coverage. If the material has skinned over (not sticky to the touch), recomb with the notch trowel; if too dry, remove and replace the dry material with fresh material. Thin Set Mortar should not be used to fill low spots in the flooring. Mortar thickness should be less than 3/4" when beat in.

**4. Availability & Cost**

Location	Item Code	Size	Color	Package
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USA	MGMM50	50 lb (22.68 kg)	White	Bag
USA	MGMMY50	50 lb (22.68 kg)	Gray	Bag
Canada	CMGMMG50	50 lb (22.68 kg)	Gray	Bag
Canada	CMGMM50	50 lb (22.68 kg)	White	Bag

## 5. Product Warranty

This product is eligible for Custom® Building Products 15 Year Installation Systems Warranty, and a Lifetime Residential Installation System Warranty. Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's printed instructions. Custom® makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another. For details and complete warranty information, visit [/reference-library/warranties.aspx](#).

## 6. Product Maintenance

Properly installed product requires no special maintenance.

## Curing of Product

Curing time is affected by ambient and surface temperatures and humidity. Use the following as a guideline. Allow 24 hours before grouting and light traffic. Allow 7-10 days before heavy or vehicular traffic. Before exposure to heavy or vehicular traffic, assure assembly is rated **Heavy** or **Extra Heavy** per TCNA Service Requirements. As necessary, use plywood or other load distributing protection when moving heavy equipment across tiled assembly. Submerged installations must cure for 14 days before filling with water.

## 7. Technical Services Information

For technical assistance, contact Custom® Building Products.

## 8. Filing System

Additional product information is available from the manufacturer upon request.

## Cleaning of Equipment

Clean with water before the material dries.

## Health Precautions

This product contains Portland cement and free silica. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Do not breathe dust; wear a NIOSH approved respirator

## 9. Technical Services Information

For technical assistance, contact Custom® Building Products.

## 10. Filing System

Additional product information is available from the manufacturer upon request.

## Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

## Coverage Chart

SQUARE FOOT COVERAGE PER 50 LB BAG (SQUARE METER PER 22.68 KG)

Trowel Size	Min Coverage	Max Coverage
Longest side of tile less than 8" use 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Square-Notch	90 sq. ft. (8.4 M <sup>2</sup> )	100 sq. ft. (9.3 M <sup>2</sup> )
Longest side of tile 8" to 15" use 1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm) Square-Notch	63 sq. ft. (5.9 M <sup>2</sup> )	70 sq. ft. (6.5 M <sup>2</sup> )

Longest side of tile more than 15"+ use 1/2" x 1/2" x 1/2" (13 x 13 x 13 mm) Square-Notch	45 sq. ft. (4.2 M <sup>2</sup> )	50 sq. ft. (4.6 M <sup>2</sup> )
Longest side of tile more than 15"+ use 3/4" U-Notch— 9/16" U-Notch— 3/8" (19 mm— 14 mm— 9.5 mm)	36 sq. ft. (3.3 M <sup>2</sup> )	40 sq. ft. (3.7 M <sup>2</sup> )

Recommended minimum coverage (80% for dry areas and 95% for wet areas and exteriors). Back buttering may be necessary.

Note that mortar coverage does not include backbuttering tiles. When backbuttering, consider the tile underside pattern and depth to estimate thickness and usage to add to your estimate.

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more sizes, use the material calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at 800-282-8786.