

# MEGALITE<sup>®</sup> CRACK PREVENTION MORTAR

- **Ultimate bond strength and flexibility**
- **Isolates cracks up to 1/8" (3 mm)**
- **Non-slip for large, heavy wall tile**
- **Non-slump for heavy tile and stone floor applications**
- **30 lb. (13.6 kg) bag covers same area as typical 50 lb. (22.68 kg) bag**
- **Contributes to LEED certification**

## PRICE



## PRODUCT DESCRIPTION

With its unique formula, MegaLite<sup>®</sup> offers the ultimate in bond strength for the most demanding installation requirements and the flexibility to withstand horizontal substrate movement up to 1/8" (3 mm) without transmitting cracks through the tile installation. Formulated with CustomLite<sup>®</sup> Technology, MegaLite is 40% lighter than other mortars providing excellent handling characteristics. A 30 lb. (13.6 kg) bag covers the same area as a 50 lb. (22.68 kg) bag of traditional mortar making it easier to carry. Offers non-slip/non-slump characteristics for installing large, heavy tile and stone on floors and walls. Protected by MoldGard<sup>®</sup> Technology to resist mold and mildew growth. Made with 100% recycled materials – contributes to LEED certification. Exceeds ANSI A118.4 and A118.11 without the need for additives.

## USES — TILE TYPES

- Vitreous, semi-vitreous or absorptive tile: ceramic, mosaic, quarry, cement
- Impervious porcelain and glass tile
- Brick and mini-brick
- Precast terrazzo
- Natural stone tile

## AREAS OF USE

- Interior or exterior floors, countertops, walls
- Concrete, mortar beds, masonry, Portland cement plaster
- Backerboards such as WonderBoard<sup>®</sup> and EasyBoard<sup>®</sup>
- Exterior grade plywood (interior residential and light commercial dry areas)
- Gypsum wallboard (dry areas)

- Water-resistant wallboard
- Existing ceramic tile
- Sheet vinyl flooring, VCT
- Plastic laminates
- Cutback adhesive

## LIMITATIONS

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic and OSB panels.
- When setting moisture sensitive natural stone or agglomerates (check with manufacturer) use 100% Solids Epoxy Mortar.
- Do not use to install resin-backed marble.
- When setting glass tile larger than 6" x 6" (15 x 15 cm) contact Technical Services for recommendations.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Technical Services for recommendations regarding subfloor deflection requirements.
- Not for controlling vertical movement cracks.
- Do not use to bridge or cover over existing expansion, control, construction, cold or saw-cut joints.

## SURFACE PREPARATION

### General Surface Preparation:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt or any contaminants. Ambient temperature, surfaces and materials should be maintained at a temperature above 50° F (10° C) or below 100° F (38° C) for 72 hours.



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### **Cementitious Surfaces:**

Concrete or plaster must be fully cured and accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved. If water beads, surface contaminants are present and loss of adhesion may occur. The contaminants should be removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be roughened to ensure a good bond.

### **Plywood Substrates:**

Plywood floors including those under resilient flooring must be structurally sound and meet all ANSI and deflection requirements. For questions about proper subfloor installation, call Technical Services.

### **Backerboards and Underlayments:**

Tile backerboards such as WonderBoard® and EasyBoard® are a superior alternative to using a second layer of plywood as a final substrate for tile installation. EasyMat™ is an underlayment that can be used in the same regard. Each provide unique benefits to tile installation but all can be installed over plywood to ensure that maximum bond strengths and performance are achieved. Refer to respective data sheet for installation information.

### **Existing Ceramic Tile, Resilient Flooring or Plastic Laminates:**

Plywood floors must be built to industry standards. Resilient flooring or plastic laminates must be well bonded, clean and free of all contaminants. Roughen the surface by sanding or scarifying, rinse and allow to dry. Do not sand flooring containing asbestos. For existing well-bonded ceramic tile, mechanically abrade with carborundum stone. Rinse and allow to dry. When sanding we recommend the use of an approved respirator.

### **Cutback Adhesive over Concrete:**

Adhesive layers must be removed as they reduce mortar bond strength to cement surfaces. Use extreme caution as 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. Do a test bond area first, to determine desirable results. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings" for further information.

**Expansion Joints:** Expansion joints, control joints and cold joints should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant.

### **MIXING**

Thoroughly mix approximately 6 quarts (5.67 L) clean, cool water and a 30 lb. (13.6 kg) bag of MegaLite together to a smooth, paste-like consistency. Mix by hand or use a low speed (150 - 200 RPM) 1/2" (13 mm) drill. Let slake or stand 5 - 10 minutes, stir again and use. Stir occasionally to keep fluffy, but do not add more water. When properly mixed, troweled ridges will stand with no slump.

### **APPLICATION**

**INSTALLATION TO CONFORM TO ANSI A108.5.** Use proper sized notch trowel to ensure 100% coverage under tiles. Using flat side of trowel, apply skim coat of mortar to the surface. Apply additional mortar with notched side of trowel held at a 45° angle to the surface, combing in one direction. Press tile firmly into place in a perpendicular motion across ridges, moving back and forth. Perpendicular pressing flattens ridges and closes valleys allowing maximum coverage. With some tile, back buttering is advisable. Adjust tile promptly and beat in with block and rubber mallet. Use as a thin-set or medium bed mortar — can be applied up to 3/4" (19 mm) thick after beat in. It can be applied 3/4" thick on horizontal surfaces. Periodically pull up a tile and check the back to ensure complete coverage with the adhesive. Do not spread more material than can be tiled in 15 minutes or while material has wet tack (sticky to the touch). If material has skinned over (not sticky), recomb with notch trowel. If too dry, remove and replace with fresh material. Material in bucket will remain workable approximately 4 hours.

### **CURING**

Allow to cure for 24 hours before grouting or light traffic, depending upon temperature and humidity. Polyblend® or Prism® SureColor® Grout is recommended.

### **COVERAGE**

<b>SQUARE FOOT COVERAGE PER 30 LB. BAG (SQUARE METER PER 13.6 KG)</b>	
<b>TROWEL SIZE</b>	<b>COVERAGE</b>
1/4" x 1/4" x 1/4" Square-Notch (6 x 6 x 6 mm)	100 - 110 sq. ft. (9.3 - 10.2 m <sup>2</sup> )
1/4" x 3/8" x 1/4" Square-Notch (6 x 9 x 6 mm)	70 - 77 sq. ft. (6.5 - 7.2 m <sup>2</sup> )
1/2" x 1/2" x 1/2" Square-Notch (13 x 13 x 13 mm)	50 - 55 sq. ft. (4.6 - 5.1 m <sup>2</sup> )
3/4" x 9/16" x 3/8" U-Notch (19 x 14 x 9 mm)	40 - 44 sq. ft. (3.7 - 4.1 m <sup>2</sup> )

### **CLEAN-UP**

Clean with water before material dries.

## SAFETY

Contains Portland cement. 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. This product contains free silica. Do not breathe dust; wear NIOSH approved respirator.

## ORDERING INFORMATION

	ITEM CODE	SIZE	COLOR	PACKAGE
USA	MLMG30	30 lb. (13.6 kg)	Gray	Bag
USA	MLMW30	30 lb. (13.6 kg)	White	Bag
Canada	CMLMW30	30 lb. (13.6 kg)	White	Bag
Canada	CMLMW15	15 lb. (6.8 kg)	White	Bag

## TECHNICAL DATA

Exceeds ANSI A118.4 and A118.11 specifications.

	MEGALITE® CRACK PREVENTION MORTAR
Pot Life	4 hours
Open Time	100 - 120 minutes
Adjustment Time	50 - 70 minutes
Shear Bond:	
Bisque Tile 28 Days	830 psi (58.3 kg/cm <sup>2</sup> )
Porcelain Tile 28 Days	700 psi (49.2 kg/cm <sup>2</sup> )
Quarry Tile to Plywood 28 Days	365 psi (25.7 kg/cm <sup>2</sup> )

## LIMITED PRODUCT WARRANTY

Custom Building Products ("Custom") 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 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 express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.



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