



Veneer Stone Mortar, Polymer Modified

No. 1137-85

Uses

QUIKRETE® Veneer Stone Mortar, Polymer Modified (PM) is a contractor-grade polymer modified mortar mix designed for veneer applications and tuck pointing of manufactured and natural stone. QUIKRETE® Veneer Stone Mortar PM can be used as a bond coat, scratch and brown coat and as a mortar joint grout over concrete and masonry surfaces or galvanized, expanded metal lath. QUIKRETE® Veneer Stone Mortar PM can also be manufactured with integral color for mortar joint applications or by adding QUIKRETE® Stucco and Mortar Color (No. 1319), available in 20 standard colors.

Compositions and Materials

QUIKRETE® Veneer Stone Mortar PM contains either Portland cement meeting ASTM C 150 and hydrated lime meeting ASTM C 207, or masonry cement meeting ASTM C 91, a bond enhancing polymer meeting ASTM C1384 requirements as a water repellent and masonry sand complying with ASTM C 144.

Sizes

Available in 80 lb (36.3 Kg) bags, and in 3000 lb (1360.8 Kg) Bulk bags.

Yield

One 80 lb (36.3 kg) bag will yield approximately 0.71 cu. ft. (20 L, 0.02 M³) and as a scratch coat will cover approximately 17 sq. ft. (1.6 M²) at ½" (12 mm) thickness. Coverage in joints will vary with width.

Technical Data

Applicable Standards

- ASTM C 144 Standard Specifications for Aggregate for Masonry Mortar
- ASTM C 91 Standard Specification for Masonry Cement
- ASTM C 150 Standard Specification for Portland Cement

- ASTM C 207 Standard Specification for Hydrated Lime for Masonry Purposes
- ASTM C 270 Standard Specification for Mortar for Unit Masonry
- ASTM C1384 *Standard Specification for Admixtures for Masonry Mortars*

Physical Properties

The minimum physical properties of QUIKRETE® Veneer Stone Mortar PM, when tested under laboratory conditions are identified in Table 1.

Table 1

Compressive Strength	>1,800 psi (12.4 MPa) at 28 Days
Water Retention	> 75%
Air Content	< 18%
Tensile Bond Strength(1)	~100 psi (0.7 MPa)

(1) Bond of mortar to concrete substrate when tested in accordance with C 1583

Mixing

QUIKRETE® Veneer Stone Mortar PM can be mixed in a paddle-type mixer. Add approximately 4.5 quarts (4.3L) of clean mixing water into the mixing container for each 80 lb (36.3 Kg) bag. Slowly pour the contents of the bag(s) into the mixing water. Mix until a firm, workable consistency is achieved. If more water is needed, add small amounts at a time and continue to mix until the desired consistency is achieved. Do not exceed a total volume of 1.78 gallons (6.6L) of water for each 80 lb (36.3 Kg) bag. Color can be added to QUIKRETE® Veneer Stone Mortar PM by adding QUIKRETE® Stucco and Mortar Color (No.

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One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30305
404.634.9100

1319) to the mixing water. Twenty standard colors are available.

Application Instructions

The application of Veneer Stone Mortar PM is intended for use over galvanized diamond-mesh metal lath (2.5 or 3.4 lbs per sq.ft., 1.4-1.8 kg/m²) and two layers of grade D water resistant building paper or over solid bases such as masonry, stone, cast-in-place or pre-cast concrete. Installation over these surfaces shall be in accordance with ASTM C 926 or local governing building codes.

Concrete & Masonry Surface Preparation

Prior to application over unpainted and unsealed concrete and masonry surfaces, all loose material, dirt, dust, grease and efflorescence must be removed. Paint and sealers must be completely removed or galvanized metal lath and grade D building paper must be secured over the surface.

Wood Frame Construction Preparation

A ½" (12 mm) scratch coat of Veneer Stone Mortar PM must be applied over metal lath to provide a rigid backing for the veneer stone. The scratch coat must be allowed to cure for minimum of 48 hours prior to the application of Veneer Stone Mortar.

Installation

Dampen the concrete, masonry or scratch coat substrate with a fine spray of water, but do not soak. Use a trowel to apply a ½" (12 mm) mortar base of Veneer Stone Mortar PM or completely cover the back of the veneer stone with ½" (12 mm) of mortar. Stone must be set within 30 minutes of applying mortar bed. Press the veneer stone firmly into the mortar bed in a

twisting motion. Joints between stones should be a consistent ½" (12.7 mm) or less.

Grouting Joints

Partially fill a grout bag with mixed Veneer Stone Mortar PM. Squeeze the grout bag to fill joints around each stone. Once the material has become thumbprint hard, use a jointing tool to consolidate, smooth and seal the joints. Remove all dry, loose mortar with a dry masonry brush.

Curing

Curing of masonry mortars is required only if conditions are very hot, dry or windy. In such cases, a gentle mist of water applied to the surface will prevent premature drying and improve the strength of the mortar.

Note: Variations in mix water amount, mixing time, curing conditions and finishing will cause color variations.

Warranty

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing at Atlanta, GA 30305. The limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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