

VENEER STONE MORTAR – Polymer Modified

PRODUCT NO. 1137-85

DIVISION 4

Veneer Masonry
04 20 00

PRODUCT DESCRIPTION

QUIKRETE® Veneer Stone Mortar – Polymer Modified is a contractor-grade polymer modified mortar designed for veneer applications and tuck-pointing of manufactured and natural stone.

PRODUCT USE

QUIKRETE® Veneer Stone Mortar – Polymer Modified (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 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.

SIZES

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

YIELD

• Each 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" (13 mm) thickness. Coverage in joints will vary with width.

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM, American Society of Testing and Materials

- 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

Masonry Veneer Manufacturers Association

- Installation Guide for Adhered Concrete Masonry Veneer

American Concrete Institute

ACI 530_02 Building Code Requirements for Masonry Structures

PHYSICAL/CHEMICAL PROPERTIES

The minimum physical properties of QUIKRETE® Veneer Stone Mortar-PM, when tested under laboratory conditions are identified in the table below:



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

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

INSTALLATION

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 (6.6 L) of water for each 80 lb (36.3 kg) bag. After water addition, let the mortar slake or set for approximately 5 minutes and then remix for 2 minutes. Color can be added to QUIKRETE® Veneer Stone Mortar-PM by adding QUIKRETE® Stucco and Mortar Color (No. 1319) to the mixing water. Twenty standard colors are available.

APPLICATION

Application Instructions

The application of Veneer Stone Mortar is intended for use over galvanized diamond-mesh metal lath (2.5 or 3.4 lbs per sq.yd., 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

the Masonry Veneer Manufacturers Association's Installation Guide for Adhered Concrete Masonry Veneer or ACI 530_02.

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" (13 mm) scratch coat of Veneer Stone Mortar 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 installation of stone with additional QUIKRETE® Veneer Stone Mortar-PM as described below.

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" (13 mm) mortar base of Veneer Stone Mortar or completely cover the back of the veneer stone with ½" (13 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" (13 mm) or less.

Grouting Joints

Partially fill a grout bag with mixed Veneer Stone Mortar Mix. 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.

PRECAUTIONS

• 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 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. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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