



1. Product Name

SPEC MIX® Stone Veneer Mortar

- Stone Veneer Mortar
- Joint Grout

2. Manufacturer

SPEC MIX, Inc.
 2025 Centre Pointe Blvd.
 Suite 150
 Mendota Heights, MN 55120
 (888) 773-2649
 (651) 688-8966
 Fax: (888) 329-7732
 E-mail: info@specmix.com
 www.specmix.com

3. Product Description

BASIC USE

SPEC MIX® Stone Veneer Mortar is a pre-blended dry material specifically designed to bond precast, lightweight masonry veneer units to solid base surfaces such as masonry, concrete or galvanized, expanded metal lath. The final wall system will produce a non-load bearing, aesthetically pleasing exterior veneer, or an interior finish ideal for concrete or masonry walls, stud walls or metal buildings.

SPEC MIX® Stone Veneer Mortar Joint Grout is a preblended colored mortar used for grouting between the units. Joint Grout is available in standard or custom colors.

COMPOSITION & MATERIALS

SPEC MIX Stone Veneer Mortar and Joint Grout are preblended mixes containing Portland cement and lime, masonry cement, or mortar cement, admixtures and dried masonry sand. When specified, a pigment can be preblended with either product to ensure color consistency in each bag. Packaged completely dry, SPEC MIX Stone Veneer Mortars eliminate the inconsistencies associated with field-proportioned mortars while providing optimal bond to the units.

The manufacturing process first extracts the moisture from the sand, since wet sand directly affects the quality and consistency of mortar. The specified mix design is then entered into the computer system where each of the



ingredients is weighed separately. Finally, the product is completely preblended to meet the property requirements of ASTM C270.

TYPES & SIZES

SPEC MIX Stone Veneer Mortar and Joint Grout are available in 80 or 94 lb (36 or 42 kg) packages for easy hand loading, or in 3000 lb (1362 kg) reusable bulk bags to be used with the various patented SPEC MIX silo systems. When using the silo system, the bulk bags of mortar are delivered to the project site; the portable silo is loaded with a jobsite forklift and the product is dispensed into the mixer as needed. Just add water to the mix and the Stone Veneer Mortar or Joint Grout is ready for use.

LIMITATIONS

SPEC MIX Stone Veneer Mortar and Joint Grout should be installed in accordance with the provisions of the local building code. Good workmanship, coupled with proper detailing and design, ensures durable, functional, watertight construction.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C91 Standard Specification for Masonry Cement
- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- ASTM C144 Standard Specification for Aggregate for Masonry Mortar
- ASTM C150 Standard Specification for Portland Cement
- ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes
- ASTM C270 Standard Specification for Mortar for Unit Masonry
- ASTM C595 Standard Specification for Blended Hydraulic Cements
- ASTM C897 Standard Specification for



Aggregate for Job-Mixed Portland Cement Based Plasters

- ASTM C926 Standard Specification for Application of Portland Cement-Based Plaster
- ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete
- ASTM C1329 Standard Specification for Mortar Cement

5. Installation

METHODS

For best results, use a mechanical batch mixer. Mixing times for each product are 5 minutes minimum. When using either colored Stone Veneer Mortar or Joint Grout, the finished color should not be analyzed until thorough mixing of the mortar constituents is achieved.

Maintain a consistent water/cement ratio and ensure mix times are also consistent. Tool mortar joints when the surface is thumb print hard. Keep tooling times consistent. Do not strike joints too early or too late, as the color



Stone veneer mortar offers aesthetic appeal.



Stone Veneer Mortar is formulated for excellent workability.

will not remain consistent with the mock-up panel. Do not retemper colored Joint Grout mortar by adding additional water. Hand mixing of the mortar should be permitted only with the written approval of the specifier who should outline hand-mixing procedures.

Prior to installation, clean all surfaces of dust and debris and wash area where mortar will be applied. A water resistant barrier should be applied to surfaces other than concrete or masonry. For optimal appearance, apply mortar and precast units by working from top to bottom.

PRECAUTIONS

Mortar should be cured a minimum of 28 days. No mortars shall be used 1 hour after mixing. Clean mortar with potable water only. Colored mortar should not be cleaned with muriatic acid. Safety glasses and a dust mask are recommended when handling any mortar mixture containing silica. The cementitious materials mixed onsite are highly alkaline in nature and, upon contact with water, are irritating to eyes and skin. In case of eye contact, flood eyes repeatedly with clean water and see a physician immediately. Do not rub eyes. Wash hands thoroughly after handling or before eating. Do not take internally. Keep out of reach of children.

APPLICATION

Applying Mortar Over Wood & Lath
When installing over galvanized metal lath,

tightly attach the the lath to the substrate using nails every 6" (152 mm). To eliminate waves in the lath when attaching it to plaster board or painted surfaces, screw lath into studs every 16" (406 mm).

- When applying Stone Veneer Mortar over wood substrate and metal lath, using a trowel, apply mortar 1/2" - 3/4" (12.7 - 19.1 mm) thick to prepare the surface
- To avoid setting and/or excessive water loss due to evaporation, apply mortar only in a working area less than 5 - 10 ft² (0.47 - 0.93 m²) before the unit is applied
- Ensure that the lath is completely covered by the Stone Veneer Mortar
- Before the mortar begins to harden, use a notched trowel to "scratch" the mortar surface
- Coat the back of each unit with sufficient mortar and press it firmly into place until the excess material spreads from the sides of the unit
- Once all the units are in place, fill a grout bag with SPEC MIX Joint Grout and fill each joint by extruding the grout from the bag. The joints can then be tooled, brushed or raked

Application Over Masonry and Concrete

- On a clean surface, a 1/2" - 3/4" (12.7 - 19.1 mm) thick application of Stone Veneer Mortar can be applied directly to the masonry or concrete substrate
- Painted or waterproofed surfaces should be prepared by sandblasting and cleaning
- Before the mortar begins to harden, use a notched trowel to "scratch" the mortar surface
- Coat the back of each unit with sufficient mortar and press it firmly into place until the excess material spreads from the sides of the unit
- Once all the units are in place, fill a grout bag with SPEC MIX Joint Grout and fill each joint by extruding the grout from the bag. The joints can then be tooled, brushed or raked

BUILDING CODES

SPEC MIX Stone Veneer Mortar and Joint Grout should be installed in accordance with the provisions of the local building codes. These products should also be installed in accordance with the instructions and requirements provided by the manufacturer of the precast stone or brick.

6. Availability

AVAILABILITY

SPEC MIX Stone Veneer Mortar and Joint Grout, as well as the SPEC MIX patented silo delivery system, are available through a network of 42 national licensed manufacturers with local distribution to every major market. Contact SPEC



Mortar is designed for high bond strength and durability.

MIX, Inc., at (888) 773-2649 for more information, or visit www.specmix.com to locate a local manufacturer.

COST

Budget installed cost information may be obtained from a local SPEC MIX manufacturer or through SPEC MIX, Inc.

7. Warranty

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, express or implied, including, but not limited to, those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that, except for claims for bodily injury, Seller's liability to the Buyer or any third party, arising out of the purchase of the Product from the Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. Maintenance

Properly mixed and installed masonry units and mortar require little maintenance. Depending on service conditions, masonry walls may require periodic cleaning and tuck-pointing.

9. Technical Services

For technical assistance, contact SPEC MIX, Inc., or a local SPEC MIX manufacturer.

10. Filing Systems

- First Source™
- Additional product information is available from the manufacturer upon request.