



# STONE VENEER MORTAR

1-888-SPECMIX

DIVISION **04**  
MASONRY PRODUCTS



## Superior Adhesion. Highly Durable.

SPEC MIX® Stone Veneer Mortar is a blend of dry cementitious materials, masonry sand, and performance enhancing admixtures specifically designed to provide superior bond for manufactured and natural thin adhered stone veneer units to base surfaces. The final wall system will produce a non-load

bearing, aesthetically pleasing exterior veneer or interior finish on concrete or masonry walls, stud walls or metal buildings. It is formulated as a cohesive material with consistent workability and excellent bond strength.

SPEC MIX Stone Veneer Mortar is produced under strict manufacturing standards, and complete quality control measures are implemented with each batch. A digital printout displaying the proper proportions per batch may be kept as a permanent record. Each SPEC MIX manufacturer certifies that SPEC MIX masonry products are designed to meet the project specifications and applicable ASTM standards.

### MATERIALS USED

CEMENT  
HYDRATED LIME  
PERFORMANCE ADMIXTURES  
SAND



TOTAL QUALITY CONTROL WITH EVERY BAG  
SPECIFICALLY FORMULATED FOR OPTIMAL  
BOND AND REDUCED SAGGING  
PREBLENDED WITH SAND TO MINIMIZE LABOR COST  
CONSISTENCY BATCH TO BATCH  
GREAT WORKABILITY AND BOARD LIFE  
NO SAND PILES OR WASTED MATERIALS LEFT ON SITE

## INSTALLATION/APPLICATION

SPEC MIX Stone Veneer Mortar should be installed in accordance with the provisions of the local building codes. These products should also be installed consistent with the instructions and requirements provided by the manufacturer of the thin stone or thin brick. Prior to installation, all surfaces should be washed and free of dust and debris before applying mortar. A water resistant barrier and ASTM C 847 compliant metal lath should be applied and installed to surfaces other than clean concrete or masonry.

Using a trowel, apply SPEC MIX Stone Veneer Mortar at a thickness of approximately 3/8" - 1/2" to the lath and surface. Before the mortar begins to harden, scratch or scarify the mortar surface with the appropriate scratching tool. Any metal lath present should be fully embedded inside the scratch coat. Coat the back of each unit with mortar and press it firmly into place until the excess material extrudes from the sides of the unit and the stone is stable to the surface. Stones can be applied immediately to the scratch coat or after the scratch coat has cured for at least 24 hours. Wait 24 hours once the units are in place before joint grouting. Fill each joint with Stone Veneer Mortar by using a grout bag or tuckpointing tool. Once the joint grout has stiffened to the touch, rake with a jointing tool, then brush. Keep raking and tooling time consistent throughout the project.

## MIXING INSTRUCTIONS

Use a mechanical batch mixer or a drill with a paddle to ensure homogeneity, workability and good board life.

- Add SPEC MIX Stone Veneer Mortar to clean, potable water. Add approximately 5.5 quarts (5.2 L.) of water per 80 lb. bag. Start with 75% of the required water.
- During 1-2 minutes of initial mixing, add remaining water as necessary. Continue mixing for 3-4 minutes.
- Gauge the consistency of the mortar visually. A good workable mortar should have the consistency to be trowelable, but stiff enough to retain ridges and peaks when troweled on a horizontal or vertical surface area.
- The workability of the mortar can be adjusted as necessary by adding either more water or more powder prior to final mixing.

Mortar shall be used within one hour after initial mixing or discarded after that time period. Retempering colored SPEC MIX masonry mortars by adding additional water may affect color consistency and is not

## APPLICABLE STANDARDS: ASTM & ACI

**ASTM C 109** STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTARS **ASTM C 144** STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR **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 C 482** STANDARD TEST METHOD FOR BOND STRENGTH OF CERAMIC TILE TO PORTLAND CEMENT PASTE **ASTM C 595** STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS **ASTM C 780** STANDARD TEST METHOD FOR PRECONSTRUCTION AND CONSTRUCTION EVALUATION OF MORTARS FOR PLAIN AND REINFORCED UNIT MASONRY **ASTM C 1093** STANDARD PRACTICE FOR ACCREDITATION OF TESTING AGENCIES FOR UNIT MASONRY **ASTM C 1157** STANDARD PERFORMANCE SPECIFICATION FOR HYDRAULIC CEMENTS **ASTM C1384** STANDARD SPECIFICATION FOR ADMIXTURES FOR MASONRY MORTARS **ASTM C 1586** STANDARD GUIDE FOR QUALITY ASSURANCE OF MORTARS **ASTM C 1714** STANDARD SPECIFICATION FOR PREBLENDED DRY MORTAR MIX FOR UNIT MASONRY **ACI 530.1** SPECIFICATION FOR MASONRY STRUCTURES

## APPROXIMATE COVERAGE PER 80 LB. BAG

	Dry Stack	Jointed
Full Installation	14 Sq. Ft.	11 Sq. Ft.
3/8" Scratch Coat	22 Sq. Ft.	22 Sq. Ft.
1/2" Scratch Coat	18 Sq. Ft.	18 Sq. Ft.
Bond Coat	31 Sq. Ft.	36 Sq. Ft.
Joint Grout (1/2")	N/A	40 Sq. Ft.

## APPROXIMATE COVERAGE PER 3,000 LB. BULK BAG

	Dry Stack	Jointed
Full Installation	525 Sq. Ft.	412 Sq. Ft.
3/8" Scratch Coat	825 Sq. Ft.	825 Sq. Ft.
1/2" Scratch Coat	675 Sq. Ft.	675 Sq. Ft.
Bond Coat	1,160 Sq. Ft.	1,350 Sq. Ft.
Joint Grout (1/2")	N/A	1,500 Sq. Ft.

Note: Coverage is approximate and will vary depending on workmanship, method of installation, substrate, style of stone, waste and regional variation.

## 28 DAY TEST RESULTS

	ASTM C 482 Shear Bond Strength	ACI 530 Requirement
Manufactured Thin Stone	151 psi	50 psi
Natural Thin Stone	127 psi	50 psi

recommended. SPEC MIX products are custom packaged to the specification. Keep dry, covered and protected from weather and other damage.

## SIZES AND EQUIPMENT

SPEC MIX Stone Veneer Mortar is available in 80 lb. (36 kg) packages for easy hand loading or in 3,000 lb. (1,362 kg) reusable bulk bags to be used with the various patented SPEC MIX silo systems. When using the silo system, once 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 a mechanical batch mixer. (See silo operations manual.)

## LIMITED PRODUCT WARRANTY

SPEC MIX, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the instructions. This 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 the product (as purchased) if found to be defective, or at

the shipping company's option, to refund the purchase price. All claims under this warranty must be written and submitted to SPEC MIX, Inc.

## LIMITATIONS

SPEC MIX Stone Veneer Mortar should be installed in accordance with the provisions of the local building code and applicable ASTM standards. Good workmanship coupled with proper detailing and design assures durable, functional, watertight construction. Follow proper cold-weather masonry procedures at temperatures below 40° F (4° C).

## WARNING

**IMPORTANT! Read before using.** This product contains Hydraulic cement. Contact with freshly mixed product can cause severe burns. Avoid direct contact with skin and eyes. If this product should contact eyes, immediately flush with water for at least 15 minutes and consult a physician. For skin exposure, wash promptly with plenty of soap and water. Remove soaked clothing promptly. If this product burns your skin, see a physician immediately. This product may contain silica. Silica dust, if inhaled, may cause respiratory or other health problems. Prolonged inhalation may cause delayed lung injury, including silicosis and possibly cancer. A N95 approved dust mask, eye protection and rubber boots and gloves are recommended when using this product. Material Safety data Sheets can be viewed online at [www.specmix.com](http://www.specmix.com)

## KEEP OUT OF REACH OF CHILDREN

**WARNING:** This product contains chemicals known to the State of California to cause cancer.

## TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT [WWW.SPECMIX.COM](http://WWW.SPECMIX.COM)
- CONTACT SPEC MIX®, INC.  
PHONE: 888-SPEC-MIX FAX: 888-FAX-SPEC

SPEC MIX PRODUCTS ARE PRODUCED BY ITS LICENSED MANUFACTURING FACILITIES THROUGHOUT THE U.S. AND CANADA. EACH MANUFACTURER ADHERES TO A STRICT QUALITY ASSURANCE PROGRAM TO ENSURE COMPLETE QUALITY CONTROL IN EVERY BATCH.