



STONE VENEER MORTAR

1-888-SPECMIX

DIVISION **04**
MASONRY PRODUCTS

Superior Adhesion. Highly Durable.

SPEC MIX® Stone Veneer Mortar (SVM) is a specially formulated mortar for use in the installation of adhered masonry veneer. It contains an optimal blend of dry cementitious materials, masonry sand, and performance enhancing admixtures specifically designed to provide superior bond for manufactured adhered masonry veneer units to base surfaces. It is formulated as a cohesive material with consistent workability, high water retention and excellent bond strength. 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.

SPEC MIX SVM meets the requirements of ASTM C 1714 and ASTM C 270 for Type S and N mortar including ACI 530 shear bond requirements. SPEC MIX SVM has been rigorously tested to reduce “pop-offs” and contractor call-backs to repair adhered veneer failures common with standard mortars. SPEC MIX SVM is available in standard and custom colors.

SPEC MIX Stone Veneer Mortar is acceptable for use in the installation of manufactured adhered masonry veneer units in all types of construction: concrete, masonry, wood frame or steel studs, with submittals available upon request.

AVAILABLE IN COLOR



MATERIALS USED

PORTLAND CEMENT
HYDRATED LIME
PERFORMANCE ADMIXTURES
SAND



TOTAL QUALITY CONTROL WITH EVERY BAG
SPECIFICALLY FORMULATED FOR OPTIMAL
BOND AND REDUCED CRACKING
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
AVAILABLE IN STANDARD & CUSTOM COLORS

INSTALLATION/APPLICATION

SPEC MIX Stone Veneer Mortar should be installed in accordance with the provision of the local building codes. These products should also be installed in accordance with the instructions and requirements provided by the producer of the manufactured stone or brick. Prior to installation, all surfaces should be prepared before applying mortar. A water-resistant barrier should be applied to surfaces other than concrete masonry.

Using a trowel, apply SPEC MIX Stone Veneer Mortar $\frac{1}{2}$ to $\frac{3}{4}$ inch (1.27-19.1 mm) thick to surface making sure to embed the mortar into the wire lath. Before the mortar begins to harden, use a notched trowel to "scratch" the mortar surface. 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. Once all units are in place, fill each joint with Stone Veneer Mortar by using a grout bag, trowel and a tuckpointing tool or gun. Alternatively, the units can be applied to a scratch coat that has been cured.

When mixing, a mechanical batch mixer best ensures homogeneity, workability and good board life. Use clean, potable water and add the maximum amount consistent with optimum workability. Mixing time is five minutes and should be consistent from batch to batch. Tool mortar joints when the surface is thumb-print hard. Keep tooling time consistent. Do not strike joints too early or too late as the color will not remain consistent with the mock-up panel. Hand mixing mortar should be permitted only with written approval by the specifier who should outline hand-mixing procedures. Mortar should be cured a minimum of 28 days.

Mortar shall be used and placed in final position within one hour after initial mixing or discarded at that time. Do not retemper colored SPEC MIX Stone Veneer Mortar by adding additional water. SPEC MIX products are custom packaged to the specification. They must be kept dry, covered and protected from weather and other damage.

SIZES AND EQUIPMENT

SPEC MIX Stone Veneer Mortar is available in 80 lb. (36.3 kg.) packages for easy hand loading or in 3,000 lb. (1,360.8 kg.) reusable bulk bags to be used with the various 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.

MIXING INSTRUCTIONS

1. Add approximately 75% of the required amount of clean potable water into the mixer to reach the required water to cement ratio.*
2. With the mixer running, slowly add SPEC MIX SVM product.
3. During 1-2 minutes of initial mixing, add remaining water as necessary. Continue mixing for 3-4 minutes.
4. 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.
5. The workability of the mortar can be adjusted as necessary by adding either more water or more powder prior to final mixing.

28 DAY TEST RESULTS

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

ESTIMATED YIELDS

	80 lb. Bag	3,000 lb. Bag
Scratch Coat	20 - 23 SqFt	780 - 860 SqFt
Bonding Coat	24 - 26 SqFt	900 - 975 SqFt
Joint Grout	38 - 40 SqFt	1,425 - 1,500 SqFt
Full Installation	13 - 15 SqFt	485 - 560 SqFt

Note: The yields given above are approximate and depend on labor practices, site conditions and design of work. Yields include typical waste. Please contact your local representative for more specific yield information in your area.



*To determine the gallons of water required per bag to achieve the desired water to cement ratio, contact your local SPEC MIX sales representative.

For consistent results hand mixing is not recommended, only mechanical batch mixers ensure consistency, workability and good board life.

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 (5° C).

LIMITED WARRANTY

SPEC MIX, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the instructions hereon. 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 its product (as purchased) if found to be defective, or at the shipping company's option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to SPEC MIX, Inc. in writing. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.

WARNING

IMPORTANT! READ BEFORE USING This product contains Portland 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

KEEP OUT OF REACH OF CHILDREN

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT WWW.SPECMIX.COM
- CONTACT SPEC MIX®, INC.
PHONE: 888-SPEC-MIX FAX: 888-FAX-SPEC