



04 DIVISION
MORTAR

BUILDING STONE

MASONRY MORTAR (HARD STONE & SOFT STONE)



Great Workability. Increased Bond.

SPEC MIX® Building Stone Mortars are especially designed for masons building masonry walls with full depth stone units. Whether the specification calls for soft or hard stone, SPEC MIX Building Stone Mortar mixes are engineered to match the specific properties of each stone to increase the mortar-to-stone bond strength while allowing the mason to lay more stone every day. Meet ASTM C 270, ASTM C 1714 and CSA A 179 requirements.

SPEC MIX Building Stone Mortars are produced under strict manufacturing standards supported by complete quality control measures. A digital printout displaying the proper proportions per batch may be kept as a permanent record. Submittals are available upon request for certification to applicable ASTM, ACI, and CSA standards.

Each product is 100% dry, preblended in 80 lb (36.2 kg) or 3,000 lb (1,360.7 kg) bags, eliminating the need to measure and add raw materials and liquid admixtures on site which in turn ensures quality control while increasing jobsite productivity—EVERY JOB!

TYPICAL MATERIALS

PORTLAND CEMENT
HYDRATED LIME
SAND
PIGMENT



STANDARD (SM-01)
COLOR (SM-05)

AVAILABLE
IN COLOR





BUILDING STONE MASONRY MORTAR

INSTALLATION/APPLICATION

Mortar type should correlate with the particular masonry unit to be used. SPEC MIX Building Stone Mortar is available in formulations for hard stones such as granite and soft stone such as limestone. The specifier should evaluate the density of the stone masonry unit specified to ensure that the appropriate mortar is selected to match to the hardness of the stone masonry units for the project. For stone installation procedures, please refer to the Building Stone Institutes Guide "BSI Recommended Practices for the use of Natural Stone in Construction 3rd Edition", The Indiana Limestone Handbook 22nd Edition or ACI 530 Specification for Masonry Structures. For thin veneer applications, use SPEC MIX Adhered Veneer Mortar or SPEC MIX Polymer Modified Adhered Veneer Mortar.

Colored Building Stone Mortars are easily achieved through the SPEC MIX preblended approach perfected for over 20 years. SPEC MIX colored Building Stone Mortar uniformity starts with sourcing high quality, stable pigments and then preblending them into the formula to ensure color consistency throughout the project. The SPEC MIX standard colored mortar line is available in Building Stone Mortar formulations and consists of a collection of 25 colors that are available throughout North America. When building owners and designers want a unique color that supports their vision for a project, the options for custom SPEC MIX colored mortars are endless and consistent from batch to batch.

A sample of the proposed product will be provided by the manufacturer for architectural approval and testing, if required. Preparation of a sample panel with all materials and masonry systems employed in the final project is imperative. Retain the mock-up or field sample through the completion of the project.

Allow mortar to cure a minimum of 7 days but no more than 28 days before cleaning. Consult manufacturer of the units and cleaning chemicals for further instructions to ensure proper washing procedures. Clean masonry only with a national proprietary cleaning agent (following the manufacturer's instructions) or potable water. SPEC MIX products must be kept dry, covered and protected from weather and other damage.

SIZES AND EQUIPMENT

SPEC MIX Building Stone Mortars are available in 80 lb (36.2 kg) packages for easy hand loading or in 3,000 lb (1,360.7 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 job site forklift and the product is dispensed into a mechanical batch mixer.

ASTM C 270 PROPERTY SPECIFICATIONS (laboratory prepared)

Product	Application / Stone Type	Average compressive strength at 28 days, minimum PSI	Water retention, minimum %
Building Stone Mortar	Hard Stone	1800	75
Building Stone Mortar	Soft Stone	750	75

CSA A179 PROPERTY SPECIFICATIONS (laboratory prepared)

Product	Application / Stone Type	Minimum compressive strength, MPa	Water retention, minimum %
Building Stone Mortar	Hard Stone	12.5	70
Building Stone Mortar	Soft Stone	5	70

MIXING INSTRUCTIONS

WEAR IMPERVIOUS GLOVES, such as nitrile.

- Mixing is best accomplished by using a mechanical mixer to ensure optimal workability and performance.
- Use clean, potable water; add the amount of water consistent with optimum workability which provides adequate water to satisfy the initial rate of absorption of the masonry units.
- Mixing times are four to five minutes when using a mechanical batch mixer and should be held consistent from batch to batch.
- Maintain the same mixing procedures to maintain consistency throughout the project.
- Tool mortar joints when the surface is thumb-print hard. Keep tooling times consistent.
- Hand mix mortar only with written approval by the specifier who should outline procedures.
- Use mortar within 2.5 hours after initial mixing.
- Retemper mortar only when mixing water is lost due to evaporation.
- Whenever possible, do not retemper colored SPEC MIX masonry mortars by adding additional water; retempering may affect color consistency.

ESTIMATED YIELDS

Determining the actual square foot yield per 80 lb (36.2 kg) or 3,000 lb (1,360.7 kg) bulk bag of SPEC MIX Building Stone Mortar is dependent on the cut of the stone and mortar joint profile. Each 80 lb (36.2 kg) bag of Building Stone Mortar will produce approximately 0.75 cubic feet (21 L) of wet masonry mortar while a 3,000 lb (1,360.7 kg) bulk bag of Building Stone Mortar will yield approximately 28 cubic feet (793 L) of wet mortar.

LIMITATIONS

SPEC MIX Building Stone Mortar should be installed in accordance with the provisions of the local building code and applicable ASTM or CSA standards. Good workmanship coupled with proper detailing and design assures durable, functional, watertight construction. Follow proper cold-weather and hot-weather masonry procedures at temperatures below 40 °F (4 °C) or above 100 °F (38 °C) respectively.



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 at: One Securities Centre, 3490 Piedmont Road, Suite 1300, Atlanta, GA 30305. THIS WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.

TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT WWW.SPECMIX.COM
- CONTACT SPEC MIX®, INC.
PHONE: 888-SPEC MIX FAX: 651-454-5315