



04 DIVISION  
MORTAR

# SET DELAYED MASONRY MORTAR



## Longer Board Life. Great Workability.

SPEC MIX® Set Delayed Masonry Mortar is a dry preblended set-delayed mortar mix using either a Portland cement and hydrated lime formulation, a masonry cement formulation or mortar cement formulation, depending on specific building codes. Blended thoroughly with dried masonry sand and proprietary set delaying admixtures formulated for longer board life, superior bond, and water retention, Set Delayed Mortar slows the initial set time in hot weather conditions. This product meets C 270, ASTM C 1714, ASTM C 1384, and CSA A 179 requirements and is suited for the installation of CMU, brick and stone unit masonry. In addition to custom mix designs that are available for specific applications or properties, the standard Set Delayed Masonry Mortars are designed to be compatible with the characteristics of the specified masonry unit. There is a version acceptable for all types of masonry construction, above or below grade.

Set Delayed Masonry 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. Submittals are available upon request for certification to ASTM C 270, ASTM C 1714, CSA A 179 and other applicable ASTM standards.

### TYPICAL MATERIALS

PORTLAND, MASONRY OR MORTAR CEMENT  
HYDRATED LIME  
SAND  
SET RETARDING ADMIXTURES  
PIGMENT



STANDARD (SD-01)  
COLOR (SD-05)

AVAILABLE  
IN COLOR



## SET DELAYED MASONRY MORTAR

### INSTALLATION/APPLICATION

Mortar type should correlate with the particular masonry unit to be used. The specifier should evaluate the interaction of the mortar type and masonry unit specified. That is, masonry units having a high initial rate of absorption will have greater compatibility with mortar that has a high-water retentivity. The material properties of mortar that influence the structural performance of masonry are compressive strength, bond strength and elasticity. Because the compressive strength of masonry mortar is generally less important than bond strength, workability and water retentivity, the latter properties should be given principal consideration in mortar selection. Select mortar based on the design requirements and with consideration of code and specification provisions affected by the mortar.

A sample of the proposed product will be provided by the manufacturer for architectural approval and testing, if required. Preparation of a panel with all materials and 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 masonry 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 Set Delayed Mortar is 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 jobsite forklift and the product is dispensed into a mechanical batch mixer.

### 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.

### MORTAR PROPERTIES (laboratory prepared)

Compressive Strength	Reference Mortar	Set Delayed Mortar	ASTM C 1384 Requirement
7 Day	1,700 PSI (11.7 MPa)	1,400 PSI (9.6 MPa)	70% min of reference
28 Day	2,200 PSI (15.1 MPa)	1,900 PSI (13.1 MPa)	80% min of reference

	Reference Mortar	Set Delayed Mortar	ASTM C 1384 Requirement
Water Retention	93%	94%	Report
Air Content	5%	5%	Report
Board Life	60 min	80 min	120% min of reference
Initial Set	8 hr	11 hr	At least 1:00 hr later than ref. Not more than 8:00 hr later than ref.
Final Set	18 hr	22 hr	Not more than 8:00 hr later than ref.

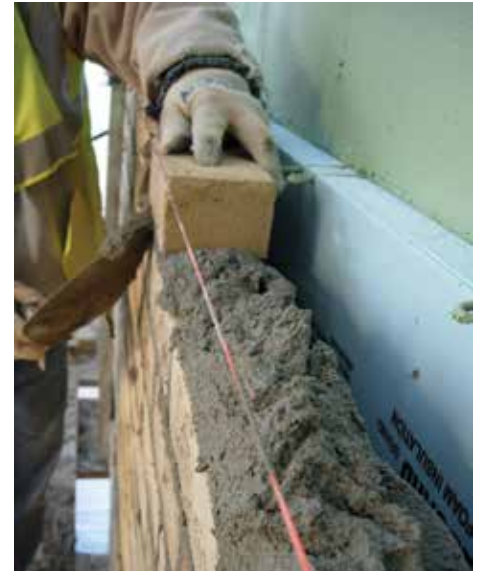
- Mixing times are four to five minutes when using a mechanical batch mixer and should be held consistent from batch to batch.
- Maintain the same mixing procedures to maintain consistency throughout the project.
- Tool mortar joints when the surface is thumb-print hard. Keep tooling times consistent.
- 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.

### LIMITATIONS

SPEC MIX Set Delayed 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 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](http://WWW.SPECMIX.COM)
- CONTACT SPEC MIX®, INC.  
PHONE: 888-SPEC MIX FAX: 651-454-5315