



# SET DELAYED MASONRY MORTAR

U. S. A.

1-888-SPECMIX

DIVISION  
MASONRY PRODUCTS **04**



## Longer Board life. Great Workability.

SPEC MIX® Set Delayed Masonry Mortar is a dry preblended set-delayed mortar mix containing Portland cement and hydrated lime, masonry cement or mortar cement and dried masonry sand and set retarding admixtures formulated for longer board life, superior bond, and water retention. This product meets ASTM C 270 and ASTM C 1384 requirements.

In addition to custom mix designs that are available for specific applications or properties, the standard Set Delayed Masonry Mortar is

### MATERIALS USED

PORTLAND CEMENT  
MASONRY CEMENT  
MORTAR CEMENT  
HYDRATED LIME  
SAND  
SET RETARDING ADMIXTURES

designed to be compatible with the characteristics of the specified masonry unit. It is acceptable for all types of masonry construction with submittals available upon request. It may be used above or below grade when manufactured to the appropriate specification.

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. Each SPEC MIX® manufacturer certifies that SPEC MIX® masonry products are designed to meet the project specifications and applicable ASTM and ACI standards.



**TOTAL QUALITY CONTROL WITH EVERY BAG**  
**MAXIMUM BOARD LIFE IN HOT WEATHER**  
**LESS RETEMPERING AND WASTED MORTAR**  
**PREBLENDED WITH ADMIXTURES AND SAND**  
**ASTM C 270 LABORATORY TESTED MIX DESIGNS**  
**ASTM C1384 COMPLIANCE**  
**MINIMIZES LABOR COST**  
**CONSISTENCY BATCH TO BATCH**  
**NO SAND PILES OR WASTED MATERIALS LEFT ON SITE**

## 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 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 this 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.

## MIXING INSTRUCTIONS

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. Clean masonry only with a national proprietary cleaning agent or potable water.

Mortar shall be used and placed in final position within two-and-one-half hours after initial mixing or discarded at that time. Retemper mortar only when mixing water is lost due to evaporation. Do not retemper colored mortar. SPEC MIX products are custom packaged to the specification. They must be kept dry, covered and protected from weather and other damage.

## APPLICABLE STANDARDS: ASTM, ACI and IMIAC

**ASTM C 91** Standard Specification for Masonry Cement. **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 476** Standard Specification for Grout for Masonry. **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 979** Standard Specification for Pigments for Integrally Colored Concrete. **ASTM C 1329** Standard Specification for Mortar Cement. **ASTM C 1384** Standard Specification for Admixtures for Masonry Mortars. **ACI 530.1** Masonry Structures. **IMIAC** Hot and Cold Weather Construction Guide

## MORTAR PROPERTIES

Compressive Strength	Control	Set Delay Mortar	ASTM 1384 Requirement
7 Day	1700	1400	70% min of reference
28 Day	2200	1900	80% min of reference

	Control	Set Delay Mortar	ASTM 1384 Requirement
Water Retention	93	94	Report
Air Content	5	5	Report
Board Life	60mm	80mm	120% min of reference
Initial Set	8h	11h	At least 1:00 h later not more than 8:00h later
Final Set	18h	22h	Not more than 8:00 h later

## SIZES AND EQUIPMENT

SPEC MIX Set Delay Masonry Mortar is designed to be used for hot weather construction. When temperatures reach or are expected to rise above 90° F, proper measures are still required to prevent Mortar from drying out too quickly to increase set times due to high temperatures as outlined by the IMIAC Hot and Cold Weather Construction Guide. Set Delayed Masonry Mortar is designed to decrease set times in hot weather, but can not keep masonry mortar from drying out too quickly before proper cure.

## 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 shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

## LIMITATIONS

SPEC MIX Set Delay Mortar should be installed in accordance with the provisions of the local building code and applicable to ASTM standards. Good workmanship coupled with proper detailing and design assures durable, functional, watertight construction.



## PRECAUTIONS

Safety glasses and a dust mask are recommended when handling any mortar mixture containing silica. The cementitious materials mixed onsite are alkaline in nature and on contact with water will irritate the eyes and skin. If contact with eyes occurs, 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.

## 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