SPEC MIX®

04 DIVISION MORTAR

SET ACCELERATED MASONRY MORTAR

Accelerated Set Times. Increased Productivity.

SPEC MIX® Set Accelerated Masonry Mortar is specifically engineered to increase the set time of masonry mortar during cold weather construction for unit masonry. It is a dry, preblended mortar mix based on project specifications requesting formulations utilizing portland cement and hydrated lime, or masonry cement or mortar cement. Using computerized batching systems these cementitious materials are blended with dried masonry sand and non-chloride set-accelerating admixture. The final product is laboratory and field tested to ensure superior bond strength, water retention and board life. In addition to custom mix designs that are available for specific applications or properties, the standard Set Accelerated 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 Accelerated 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 A179 and other applicable ASTM standards.

TYPICAL MATERIALS

PORTLAND, MASONRY OR MORTAR CEMENT
HYDRATED LIME
SAND
NON-CHLORIDE ACCELERATOR
PIGMENT

STANDARD (SA-01)
COLOR (SA-05)

AVAILABLE IN COLOR

6917110

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MORTAR PROPERTIES (laboratory prepared)

Compressive Strength	Reference Mortar	Set Accelerated Mortar	ASTM C 1384 Requirement
7 Day	1,560 PSI (10.7 MPa)	1,600 PSI (11.0 MPa)	80% min of reference
28 Day	1,900 PSI (13.1 MPa)	1,840 PSI (12.6 MPa)	80% min of reference

	Reference Mortar	Set Accelerated Mortar	ASTM C 1384 Requirement
Water Retention	86%	90%	Report
Air Content	7.2%	6.9%	Report
Board Life	82 min	46 min	Report
Initial Set	6 hr 44 min	5 hr 35 min	At least 1:00 hr earlier than ref. Not more than 3:30 hr earlier than ref.
Final Set	15 hr 8 min	12 hr 23 min	At least 1:00 hr earlier than ref.

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 Accelerated 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.

1. Mixing is best accomplished by using a mechanical mixer to ensure optimal workability and performance.
2. 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.
3. Mixing times are four to five minutes when using a mechanical batch mixer and should be held consistent from batch to batch.
4. Maintain the same mixing procedures to maintain consistency throughout the project.
5. Tool mortar joints when the surface is thumb-print hard. Keep tooling times consistent.
6. Hand mix mortar only with written approval by the specifier who should outline procedures.
7. Use mortar within 2.5 hours after initial mixing.
8. Retemper mortar only when mixing water is lost due to evaporation.
9. Whenever possible, do not retemper colored SPEC MIX masonry mortars by adding additional water; retempering may affect color consistency.

LIMITATIONS

SPEC MIX Set Accelerated 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 or hot-weather masonry procedures at temperatures below 40 °F (4 °C) or above 100 °F (38 °C) respectively.

LIMITED WARRANTY

IN THE UNITED STATES

NOTICE: Obtain the applicable LIMITED WARRANTY at www.specmix.com/product-warranty or send a written request to SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

AVISO: Obtenga la GARANTÍA LIMITADA correspondiente en www.specmix.com/product-warranty o envíe una solicitud por escrito a SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

IN CANADA

NOTICE: Obtain the applicable LIMITED WARRANTY at www.specmix.com/product-warranty or send a written request to SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

AVIS: Obtenez la GARANTIE LIMITÉE applicable sur www.specmix.com/produit-garantie. Ou envoyez une demande écrite à SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT WWW.SPECMIX.COM
- CONTACT SPEC MIX®
  PHONE: 888-733-2649 FAX: 651-454-5315

SPEC MIX PRODUCTS ARE PRODUCED BY ITS 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.
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