



1. Product Name

SPEC MIX® Tuckpoint Mortar

2. Manufacturer

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3. Product Description

BASIC USE

SPEC MIX® Tuckpoint Mortar is a dry, preblended mortar mix containing Portland cement, masonry or mortar cement, hydrated lime and dried masonry sand. It is formulated to provide superior bond, water retention and board life and meets ASTM C270 requirements.

In addition to custom mix designs that are available to meet specific applications or properties, the standard Tuckpoint mortar is designed to be compatible with the characteristics of the specified masonry unit. It is acceptable for all types of restoration masonry construction, with submittals available upon request.

ADVANTAGES

- Batch-to-batch consistency
- Laboratory tested mix designs, per ASTM C270
- Preblended with sand to minimize labor costs
- Dependable availability
- Excellent workability and board life
- Designed for optimal bond and reduced shrinkage
- No sand pebbles or wasted materials

COMPOSITION & MATERIALS

SPEC MIX Tuckpoint Mortar is produced under strict manufacturing standards, and complete quality control measures are followed in the production of every batch. A digital printout displaying the proper proportions per batch may be retained as a permanent record.

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

SIZES & EQUIPMENT

SPEC MIX Tuckpoint Mortar is available in 80 or 94 lb (42 or 36 kg) packages for easy hand loading, as well as in 3000 lb (1362 kg) reusable bulk bags to be used with the various patented SPEC MIX silo systems. When using the silo system, and upon delivery of the bulk bags of mortar to the project site, the portable silo is loaded, using a jobsite forklift, and the product is dispensed into a mechanical batch mixer (See silo operations manual).

LIMITATIONS

SPEC MIX Tuckpoint 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, ensures durable, functional, watertight construction.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C91 Standard Specification for Masonry Cement
- ASTM C144 Standard Specification for Aggregate for Masonry Mortar
- ASTM C150 Standard Specification for Portland Cement
- ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes



- ASTM C270 Standard Specification for Mortar for Unit Masonry
- ASTM C476 Standard Specification for Grout for Masonry
- ASTM C595 Standard Specification for Blended Hydraulic Cements
- ASTM C780 Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
- ASTM C897 Standard Specification for Aggregate for Job-Mixed Portland Cement Based Plasters
- ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete
- ASTM C1329 Standard Specification for Mortar Cement

American Concrete Institute (ACI) - ACI 530.1 Specification for Masonry Structures

International Masonry Industry All-Weather Council (IMIAC) - Recommended Practices and Guide Specifications for Cold Weather Masonry Construction



ENVIRONMENTAL CONSIDERATIONS

Empty bulk bags and wooden pallets are returned to the plant for reuse. The SPEC MIX silo system eliminates the use of disposable paper bags, thus reducing landfill impact.

5. Installation

PREPARATORY WORK

For optimal results, grind the mortar joint to be repaired back 3/4" (19.1 mm) and ensure that the receiving surface is free of dust and debris. Mix SPEC MIX Tuckpoint Mortar with sufficient water to produce a damp mix that will retain its shape when pressed into a ball by hand.

METHODS

To ensure a good bond, the prepared mortar joints should be dampened, but not saturated. Prior to tuckpointing, there should be no standing or ponded water on the wall. Choose a tool of slightly smaller width than the joint to be repaired. Layer mortar in 1 3/4" (44 mm) lifts. Be sure to force out all air pockets and voids as work progresses. Do not proceed with consecutive lifts until the previous lift is thumbprint hard.

Confirm that all lifts exert pressure against the upper and lower bond surfaces, which will improve bond. The last lift shall be installed and finished as in new construction, tooling when thumbprint hard. For more information, refer to Brick Association Technical Notes 7F Moisture Resistance of Brick Masonry - Maintenance.

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

Mix 5 - 7 minutes, preferably with a mechanical mixer. A mechanical batch mixer best ensures consistency and homogeneity. Use clean, potable water. Tool mortar joints when the surface is thumb-print hard.

Keep tooling time consistent. Striking of tuckpointed joints should be timed to maintain color uniformity throughout the wall as compared to the color in the mock-up panels. Hand mixing of mortar should be permitted only with written approval by the specifier, who should outline hand mixing procedures.

PLACEMENT

Mortar shall be used and placed in final position within 2 1/2 hours of 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 remain dry, covered and protected from weather and other damage.

Let the mortar stand for not less than 1 hour, and not more than 1 1/2 hours for prehydration. Add sufficient water to bring the mortar to the proper consistency for tuckpointing.

CURING

Mortar should be cured a minimum of 28 days.

PRECAUTIONS

Safety glasses and a dust mask are recommended when handling any mixture containing silica. The cementitious materials mixed onsite are highly alkaline in nature and, upon contact with water, are irritating to eyes and skin. In case of eye contact, 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.

CLEANING

Clean masonry with potable water only. Colored mortar should not be cleaned with muriatic acid.

BUILDING CODES

SPEC MIX Tuckpoint Mortar should be installed in accordance with the provisions of the local building codes.

6. Availability & Cost

AVAILABILITY

SPEC MIX Tuckpoint Mortar, as well as the SPEC MIX patented silo delivery system, are available through a network of 42 national licensed manufacturers with local distribution to every major market. Each licensee adheres to a strict quality assurance program to ensure consistent quality in every batch, throughout the project. Contact SPEC MIX, Inc., at (888) SPEC-MIX for more information, or visit www.specmix.com to locate a local manufacturer.

COST

Budget installed cost information may be obtained from a local SPEC MIX manufacturer or through SPEC MIX, Inc.

7. 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 or any third party, arising out of the purchase of the Product from the Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. Maintenance

Properly mixed and installed tuckpoint mortar requires little or no maintenance.

9. Technical Services

For technical assistance, contact SPEC MIX, Inc., or a local SPEC MIX manufacturer.

10. Filing Systems

Additional product information is available from the manufacturer upon request.