



1. Product Name

SPEC MIX® Core Fill Grout

2. Manufacturer

SPEC MIX, Inc.
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3. Product Description

BASIC USE

SPEC MIX® Core Fill Grout is a dry, preblended mix containing cementitious materials and dried aggregates. It is formulated to provide superior flow to fill masonry voids and meets ASTM C476 requirements for reinforced masonry construction. SPEC MIX Core Fill Grout is designed as a fluid cementitious material and is used to bond adjacent masonry units and steel reinforcement in the cores of the masonry units to the masonry assemblage, and to fill reinforced bond beams.

Using SPEC MIX Core Fill Grout in conjunction with existing reinforcement will produce a structurally sound final wall system for reinforced masonry construction.

ADVANTAGES

- Batch-to-batch consistency
- Laboratory tested mix designs, per ASTM C476
- Preblended to minimize labor costs
- Complements any grout placement system
- Eliminates demurrage charges
- No minimum load requirements
- Dependable availability
- No sand pebbles or wasted materials

COMPOSITION & MATERIALS

SPEC MIX Core Fill Grout contains Portland cement, pozzolans and dried aggregates. It is available in both coarse and fine formulations.

SPEC MIX Core Fill Grout 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 the project specifications and applicable ASTM and ACI standards.

SIZES & EQUIPMENT

SPEC MIX Core Fill Grout 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 shotcrete should be installed in accordance with the provisions of the local building code and applicable ASTM standards. Since variation in properties of shotcrete-making materials can be significant, use test panels to perform trial shoots to verify the properties of each mixture.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C143/C143M Standard Test Method for Slump of Hydraulic Cement Concrete
- ASTM C150 Standard Specification for Portland Cement
- ASTM C260 Standard Specification for Air-Entraining Admixtures for Concrete
- ASTM C404 Standard Specification for Aggregates for Masonry Grout
- ASTM C476 Standard Specification for Grout for Masonry
- ASTM C595 Standard Specification for Blended Hydraulic Cements
- ASTM C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete
- ASTM C989 Standard Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars
- ASTM C1019 Standard Test Method for Sampling and Testing Grout
- ASTM C1093 Standard Practice for Accreditation of Testing Agencies for Unit Masonry
- ASTM C1157 Standard Performance Specification for Hydraulic Cement



- ASTM C1314 Standard Test Method for Compressive Strength of Masonry Prisms

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

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

SPEC MIX Core Fill Grout may be used in both low- and high-lift applications. Special consideration should be given when selecting the type of grout for a particular application.

Handle and store product according to SPEC MIX recommendations. SPEC MIX products are custom packaged to the specification and must be stored dry, covered and protected from weather and other damage.

METHODS

SPEC MIX Core Fill Grout may be placed by hand or by mechanical delivery. It should be consolidated upon placement and reconsolidated before initial set.

Course grout may be used in grout spaces in brick masonry, 2" (51 mm) or more in horizontal dimensions where no horizontal steel is in the grout space, and in the cells in block



construction that are 4" (102 mm) or more in both horizontal dimensions. If the cavity is smaller than noted above, fine grout should be used. Always consult the project specifications and structural notes to ensure proper product selection.

MIXING

When mixing, use a mechanical batch mixer to ensure homogeneity, workability and good board life. Use clean, potable water, and add the maximum amount consistent with optimum workability.

Mixing time is 5 minutes and should be consistent from batch to batch. Hand mixing of the grout should be permitted only with the written approval by the specifier, who must outline hand mixing procedures.

CURING

Grout should be cured a minimum of 28 days. Unused grout should be discarded one-and-one-half hours from initial mixing.

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 Core Fill Grout should be installed in accordance with the provisions of the local building codes. These products should also be installed in accordance with the instructions and requirements provided by the manufacturer of the precast stone or brick.

6. Availability & Cost

AVAILABILITY

SPEC MIX Core Fill Grout, 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 masonry units and mortar require little maintenance. Depending on service conditions, masonry walls may require periodic cleaning and tuck-pointing.

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.