



04 DIVISION
MORTAR

CORE FILL MASONRY GROUT



High Strength. Structural Integrity.

In reinforced masonry, SPEC MIX® Core Fill Grout is used to fill cells of concrete masonry units and horizontal bond beams as well as the cavities of composite masonry construction. SPEC MIX Core Fill Grout is available in both Fine and Coarse designs to meet various project specifications. The Core Fill Grouts are dry, preblended products containing cementitious materials and dried aggregates formulated for superior flow to fill masonry voids and achieve required compressive strength while meeting ASTM C 476 and CSA A 179 requirements for reinforced masonry construction. It is designed as a fluid, cohesive, cementitious material used to bond together adjacent masonry units and steel reinforcement to the masonry assemblage, or to fill reinforced bond beams. Using SPEC MIX Core Fill Grout in conjunction with existing structurally sound reinforcement will produce a structurally sound final wall system for reinforced masonry construction.

SPEC MIX Core Fill Grout 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 applicable ASTM, ACI, and CSA standards.

TYPICAL MATERIALS

PORTLAND CEMENT
POZZOLANS
AGGREGATES



COARSE (CF-02)
FINE (CF-03)



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INSTALLATION/APPLICATION

SPEC MIX® Core Fill Grout may be used in both low-lift and high-lift applications. Special consideration should be used in selecting the type of grout used for a particular application. Core Fill Grout may be placed by hand or by mechanical delivery. It should be consolidated upon placement and reconsolidated before initial set. Coarse grout may be used in grout spaces that are two inches or more in horizontal dimensions where no horizontal steel is in the grout space, and in the cells of block construction that are four inches or more in both horizontal dimensions. If the cavity is smaller than the above mentioned dimensions, fine grout should be used. Always check project specifications and structural notes to assure proper product selection has been made.

SPEC MIX Core Fill Grouts must be kept dry, covered and protected from weather and other damage.

SIZES AND EQUIPMENT

SPEC MIX Core Fill Grout is available in 80 lb (36.2 kg) packages for easy hand loading as well as 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 grout 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. (See silo operations manual.)

MIXING INSTRUCTIONS

WEAR IMPERVIOUS GLOVES, such as nitrile.

1. Use a mechanical batch mixer to ensure optimal workability and performance. Hand mixing grout should be permitted only with written approval by the specifier who should outline hand-mixing procedures.
2. Add the dry Core Fill Grout material to enough clean, potable water to obtain a flowable 8 in to 11 in (200 mm to 275 mm) slump complying with ASTM C 476 and local building codes.
3. When using a continuous mixing system, follow the mixer manufacturer's recommendations. An 8 in to 11 in (200 mm to 275 mm) slump must be achieved.
4. Mixing times should remain consistent batch to batch.
5. In general, mix only the amount of material that can be used within one hour of initial mixing.

ASTM C 476 PROPERTY SPECIFICATIONS (LABORATORY PREPARED)

	Slump	Strength (28 days Min)
Coarse	8 in to 11 in (200 mm to 275 mm)	3,000 PSI (20.6 MPa)
Fine	8 in to 11 in (200 mm to 275 mm)	3,000 PSI (20.6 MPa)

ESTIMATED YIELDS PER 80 lb (36.2 kg) BAG

Unit Size	Blocks Filled	Cores Filled
6 in (150 mm) Block	3.4 to 3.8	6.8 to 7.6
8 in (200 mm) Block	2.5 to 2.9	5.0 to 5.8
10 in (250 mm) Block	2.1 to 2.3	4.2 to 4.6
12 in (300 mm) Block	1.7 to 1.9	3.4 to 3.8

Note: The yields given above are approximate and depend on labor practices, site conditions and design of work. Yields include typical waste. Please contact your local representative for more specific yield information in your area.

CSA A 179 PROPERTY SPECIFICATIONS (LABORATORY PREPARED)

	Slump	Strength (28 days Min)
Coarse	8 in to 11 in (200 mm to 275 mm)	3,000 PSI (20.6 MPa)
Fine	8 in to 11 in (200 mm to 275 mm)	3,000 PSI (20.6 MPa)

ESTIMATED YIELDS PER 3,000 lb (1,360.7 kg) BULK BAG

Unit Size	Blocks Filled	Cores Filled
6 in (150 mm) Block	125 to 142	255 to 285
8 in (200 mm) Block	93 to 110	185 to 218
10 in (250 mm) Block	78 to 85	155 to 170
12 in (300 mm) Block	63 to 70	128 to 140



LIMITATIONS

SPEC MIX Core Fill Grout should be installed in accordance with the provisions of the local building code and applicable ASTM, ACI, and CSA 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
- CONTACT SPEC MIX®, INC.
PHONE: 888-SPEC MIX FAX: 651-454-5315