



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 A179 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, TMS, and CSA standards.

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### TYPICAL MATERIALS

PORTLAND CEMENT  
POZZOLANS  
AGGREGATES



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



## CORE FILL MASONRY GROUT

### 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. 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.

### LIMITATIONS

SPEC MIX Core Fill Grout should be installed in accordance with the provisions of the local building code and applicable ASTM, TMS, and CSA standards. Good workmanship coupled with proper detailing and design assures durable, functional, watertight construction.

### ASTM C 476 PROPERTY SPECIFICATIONS (LABORATORY PREPARED)

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

### CSA A179 PROPERTY SPECIFICATIONS (LABORATORY PREPARED)

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

**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.

| Grout Type <sup>1</sup> | Max. grout pour height ft (m) | Min. width of grout space <sup>2,3</sup> in. (mm) | Min. grout space dimensions for grouting cells of hollow units <sup>3,4</sup> in. x in. (mm x mm) |
|-------------------------|-------------------------------|---|---|
| Fine                    | 1 (0.30)                      | 3/4 (19.1)  | 1 1/2 x 2 (38.1 x 50.8)   |
| Fine                    | 5 (1.52)                      | 2 (50.8)  | 2 x 3 (50.8 x 76.2)   |
| Fine                    | 12 (3.66)                     | 2 1/2 (63.5)                                      | 2 1/2 x 3 (63.5 x 76.2)   |
| Fine                    | 24 (7.32)                     | 3 (76.2)  | 3 x 3 (76.2 x 76.2)   |
| Coarse                  | 1 (0.30)                      | 3/4 (19.1)  | 1 1/2 x 3 (38.1 x 76.2)   |
| Coarse                  | 5 (1.52)                      | 2 (50.8)  | 2 1/2 x 3 (63.5 x 76.2)   |
| Coarse                  | 12 (3.66)                     | 2 1/2 (63.5)                                      | 3 x 3 (76.2 x 76.2)   |
| Coarse                  | 24 (7.32)                     | 3 (76.2)  | 3 x 4 (76.2 x 102)  |

<sup>1</sup> Fine and coarse grouts are defined in ASTM C 476  
<sup>2</sup> For grouting between masonry wythes  
<sup>3</sup> Grout space dimension is the clear dimension between any masonry protrusion and shall be increased by the diameters of the horizontal bars within the cross section of the grout space.  
<sup>4</sup> Area of vertical reinforcement shall not exceed 6 percent of the area of the grout space.

Follow proper cold-weather and hot-weather masonry procedures at temperatures below 40 °F (4 °C) or above 100 °F (38 °C) respectively.

warranty. Or send a written request to SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

### LIMITED PRODUCT WARRANTY IN THE UNITED STATES

**NOTICE:** Obtain the applicable LIMITED WARRANTY at [www.specmix.com/product-warranty](http://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](http://www.specmix.com/product-warranty) o envíe una solicitud por escrito a SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

### IN CANADA

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**AVIS:** Obtenez la GARANTIE LIMITÉE applicable sur [www.specmix.com/produit-garantie/](http://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](http://WWW.SPECMIX.COM)
- CONTACT SPEC MIX®  
PHONE: 888-773-2649 FAX: 651-454-5315