CORE-FILL GROUT - COARSE

PRODUCT NO. 1585-07

DIVISION **4**

04 05 16 Masonry Grouting

PRODUCT DESCRIPTION

QUIKRETE® Core-Fill Grout – Coarse is a blended, properly proportioned mixture of portland cement, graded fine and coarse aggregates, that may contain other approved additives; specifically designed as a flowable grout to fill masonry block cores.

PRODUCT USE

QUIKRETE® Core-Fill Grout – Coarse can be mixed to an 8 in to 11 in (200 mm to 275 mm) slump tested as per ASTM C143 and poured or pumped into the cores of masonry walls. Requiring only the addition of water, QUIKRETE® Core-Fill Grout – Coarse complies with the requirements of ASTM C476.

SIZES

QUIKRETE® Core-Fill Grout – Coarse is available in:

- 80 lb (36.2 kg) bags

YIELD

- Each 80 lb (36.2 kg) bag of QUIKRETE® Core-Fill Grout – Coarse will yield approximately 0.65 ft^3 (18.4 L)
- **Coverage** - Each 80 lb (36.2 kg) bag of QUIKRETE® Core-Fill Grout – Coarse will fill the cores of approximately 3 standard 8 in x 8 in x 16 in (200 mm x 200 mm x 405 mm) blocks.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C138 Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
- ASTM C143 Standard Test Method for Slump of Hydraulic-Cement Concrete
- ASTM C476 Standard Specification for Grout for Masonry
- ASTM C1019 Standard Test Method for Sampling and Testing Grout for Masonry
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting
- ACI 530 Building Code Requirements and Specification for Masonry Structures

PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Core-Fill Grout – Coarse meets the performance requirements of ASTM C476 for masonry grouts and achieve the typical properties shown in Table 1, when tested in accordance with that specification.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Slump, ASTM C143	8 in to 11 in (200 mm to 275 mm)
Unit Weight, ASTM C138	~140 lb/ft^3 (2242 kg/m^3)
Compressive Strength, ASTM C39 (modified by ASTM C1019)	
28 days*	> 2000 PSI (13.7 MPa)

**Other higher strength versions of the product are available to meet jobsite strength requirements*

INSTALLATION

MIXING

Add approximately 4 quarts (3.8 L) of potable water for each 80 lb (36.2 kg) bag and mix for approximately 5 minutes in a standard mortar mixer or drum-style concrete mixer. If more water is needed to obtain a flowable 8 in to 11 in (200 mm to 275 mm) slump tested as per ASTM C143, add small amounts of water at a time until the desired consistency is achieved. A minimum slump of 8 in (200 mm) tested as per ASTM C143, must be achieved to comply with ASTM C476 and local building codes. Do not exceed a maximum of 6 quarts (5.7 L) of water for each 80 lb (36.2 kg) bag. Mix only the amount of material that can be used within one hour.

Placing

Pump or pour into cores of the masonry wall. Grout all concrete masonry block bond beams, lintels, and rebar-reinforced cells. Do not place grout until the entire height of masonry to be grouted has achieved sufficient strength to resist grout pressure. Consolidate by vibration and refill in accordance with building code requirements.

***Note**: Refer to Table 2 for allowable grout pour height and dimensions.*

CURING

Under normal circumstances, no special curing is required. Keep the temperature above 50 °F (10 °C) for a minimum of 7 days. Plastic sheeting and insulation blankets should be used if temperatures are expected to fall below 32 °F (0 °C).

PRECAUTIONS

- Mix no more than can be used in 1 hour.
- For best results, do not overwork the material.
- During hot weather, work during cool times of the day, and use cold water to slow down the setting time. Do not apply when temperatures are above 100 °F (38 °C) without adopting the recommended hot weather precautions. Additional recommendations can be found in ACI 305R.

- In cool weather, use warm water to speed the setting time. Do not apply when temperatures are expected to fall below 40 °F (4 °C) within 24 hours without adopting the recommended cold weather precautions. Protect from rain, snow and freezing for 48 hours after application. Additional recommendations can be found in ACI 306R.

TABLE 2 GROUT SPACE REQUIREMENTS (PER ACI 530)

Maximum Grout Pour Height ft (m)	Minimum Width of Grout Space [1,2] in (mm)	Minimum Grout Space Dimensions for Grouting Cells of Hollow Units[2,3] in x in (mm x mm)
1 (0.3)	1-1/2 (38)	1-1/2 x 3 (38 x 75)
5-1/3 (1.6)	2 (50)	2-1/2 x 3 (63 x 75)
12-2/3 (3.9)	2-1/2 (63)	3 x 3 (75 x 75)
24 (7.3)	3 (75)	3 x 4 (75 x 100)

[1] For grouting between masonry wythes

[2] Minimum clear width of grout space and minimum clear grout space dimension are the net dimension of the space determined by subtracting masonry protrusions and the diameters of horizontal bars from the as-designed cross-section of the grout space. Grout type and maximum grout pour height shall be specified based on the minimum clear space.

[3] Area of vertical reinforcement shall not exceed 6 percent of the area of the grout space.

SAFETY

IMPORTANT: Read Safety Data Sheet carefully before using. **WEAR IMPERVIOUS GLOVES**, such as nitrile, mask, and eye protection.

DANGER: Causes severe skin burns and serious eye damage. Prolonged or repeated inhalation of dust may cause lung damage or cancer.

Keep out of reach of children

WARRANTY

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.quikrete.com/product-warranty or send a written request to The Quikrete Companies, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured by or under the authority of The Quikrete Companies, LLC. © 2024 Quikrete International, Inc.