

BULK MASONRY MORTARS & COREFILL MASONRY GROUTS

DIVISION 4

Common Work Results
for Masonry 04 05 00

PRODUCT DESCRIPTION

QUIKRETE® Bulk Masonry products are contractor-grade masonry mortars and grouts designed for building and reinforcing walls made of brick, block or stone.

PRODUCT USE

QUIKRETE® Bulk Masonry Mortars and Corefill Masonry Grouts are pre-blended sanded products requiring only the addition of water. Mortars are available in Types M, N or S, using either masonry cement or a Portland/lime blend. Fine and coarse grouts are available in strength ranges from 2000 psi (13.8 MPa) to greater than 5000 psi (34.5 MPa). The standard color is gray. Masonry mortars are available in white and a variety of custom colors by special order.

SIZES

The standard package is delivered in 3000 lb (1362 kg) bulk bags (super sacks), which are typically charged into mini-silos that hold up to 6 super sacks. QUIKRETE® Masonry Mortars and Corefill Masonry Grouts are also available in 80 lb (36.3 kg) bags.

YIELD

A 3000 lb (1362 kg) bag will yield:

- Grout
- Fine - 0.95 yd³ (0.73 m³)
 - Coarse - 0.90 yd³ (0.69 m³)

Mortar

- Portland/lime - 0.95 yd³ (0.73 m³)
- Masonry cement - 1.05 yd³ (0.8 m³)

COVERAGE

Mortar

Each 3000 lb (1362 kg) bag of QUIKRETE® bulk masonry mortar will lay up to 1400 standard bricks or up to 530 standard blocks. Coverage will vary with mortar type and mortar placement method.

Grout

Each 3000 lb (1362 kg) bag of QUIKRETE® fine grout will fill the cores of approximately 110 standard 8" x 8" x 16" (203 x 203 x 406 mm) block. Coverage is reduced to approximately 105 blocks per bag of coarse grout.

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International

- ASTM C 270 Standard Specification for Mortar for Unit Masonry

- ASTM C 476 Standard Specification for Grout for Masonry

PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Bulk Masonry Mortars meet and exceed the performance requirements of ASTM C270 for the designated type of mortar as shown in Tables 1 and 2.

TABLE 1 - COMPRESSIVE STRENGTHS

Mortar Type	Min. Compressive Strength
N	750 psi (5.2 MPa)
S	1800 psi (12.4 MPa)
M	2500 psi (17.2MPa)

TABLE 2 - OTHER PROPERTIES

Mortar Type	Max Air, % ¹	Max Air, % ²	Water Retention
N	14	20	>75%
S	12	18	>75%
M	12	18	>75%

¹ Mortars made with Portland cement and hydrated lime or mortar cement

² Mortars made from masonry cement

QUIKRETE® Corefill Masonry Grouts meet and exceed the performance requirements of ASTM C476 for masonry grouts and achieve the typical properties shown in Table 3, when tested in accordance with that specification.

TABLE 3 - TYPICAL PROPERTIES

Property	Result
Water Content	12-18% (varies with type)
Slump	8"-11" (200-280 mm)
28 day strength ¹	> 2000 psi (13.8 MPa)
Unit Weight, Fine	~130 lb/ft ³ (2080 kg/m ³)
Unit Weight, Coarse	~140 lb/ft ³ (2240 kg/m ³)

¹ Higher strength products are available to meet jobsite strength requirements

INSTALLATION

MIXING (MORTARS)

QUIKRETE® Bulk Masonry Mortars require only the addition of water. Mix for approximately 5 minutes in a standard mortar mixer.

PLACING

- Apply a full bed of mortar onto the base, approximately 1/2" - 3/4" (12 - 19 mm) thick
- Push downward into the mortar bed and sideways against the previously laid block with a slight twisting motion
- Tool the mortar joints when the joints become "thumb print" hard; this will make the mortar joint watertight and provide a neat appearance

CURING

Curing of masonry mortars is required only if conditions are very hot, dry or windy. In such cases, a gentle mist of water applied to the surface will prevent premature drying and improve the strength of the mortar.

MIXING (GROUTS)

QUIKRETE® Corefill Masonry Grouts require only the addition of water. Mix for approximately 5 minutes in a standard mortar mixer or drum-style concrete mixer. Slump must be 8" - 11" (200 - 280 mm) to comply with ASTM C 476 and local building codes.

PLACING

Pump or pour into cores of the wall. Consolidate by vibration and refill in accordance with building code requirements.

PRECAUTIONS

Variations in mix water amount, mix time, curing conditions and finishing will cause color variations in placed mortars.

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The 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) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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** Refer to www.quikrete.com for the most current technical data, MSDS, and guide specifications*

