

## MORTAR MIX

PRODUCT NO. 1102

### PRODUCT DESCRIPTION

QUIKRETE® Mortar Mix is a construction grade mortar mix designed for laying brick, concrete masonry units and stone.

### PRODUCT USE

QUIKRETE® Mortar Mix is a construction grade mortar mix designed for laying brick, concrete masonry units and stone. QUIKRETE® Mortar Mix is a pre-blended, sanded product. The standard formulation meets ASTM C 270 and C 1714 for Type N mortar.

### COLORS

QUIKRETE® Mortar Mix is available in gray and additional colors by special order. Color can also be added to the product as it is mixed by adding QUIKRETE® Stucco and Mortar Color (#1319) to the mixing water. Twenty standard colors are available.

### SIZES

- QUIKRETE® Mortar Mix -
  - 60 lb (27.2 kg) bags
  - 80 lb (36.3 kg) bags

### YIELD

• Each 80 lb (36.3 kg) bag of QUIKRETE® Mortar Mix will lay up to 37 standard bricks or 13 standard (8" x 8" x 16" [200 x 200 x 400 mm]) blocks.

### TECHNICAL DATA

#### APPLICABLE STANDARDS

ASTM International

- ASTM C 270 Specification for Mortar for Unit Masonry
- ASTM C 387 Specification for Packaged, Dry, Combined Materials for Mortar and Concrete
- ASTM C 1714 Specification for Preblended Dry Mortar Mix for Unit Masonry

#### PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Mortar Mix meets or exceeds the property requirements of ASTM C 270, ASTM C 387 and ASTM C 1714 for the type selected. Refer to Appendix XI of ASTM C270 for guidance in selecting the proper mortar type. See Table 1.

### INSTALLATION

#### SURFACE PREPARATION

Surfaces to receive Mortar Mix should be clean and free of dirt, loose debris, grease, oil, etc., for the best possible bond.

## DIVISION 4

Masonry Mortaring

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### MIXING

- For each 80 lb (36.3 kg) bag, add 9 pt (4.3 L) of fresh water to mixer
  - Turn the mixer on and begin adding bags of Mortar Mix
  - If the material becomes too difficult to mix, add additional water until a workable mix of trowelable consistency is obtained
- Note - Final water content should be 9 - 14 pt (4.3 - 6.6 L) for each 80 lb (36.3 kg) bag and 7 - 10 pt (3.3 - 4.7 L) for each 60 lb (27.2 kg) bag.

### INSTALLATION

- Apply a full bed of mortar onto the base, approximately 1/2" - 3/4" (12.7 - 19.1 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 they become thumbprint hard. This will make the mortar joint watertight and provide a neat appearance

Table 1

| Hydraulic Cement- Lime Mortars or Cement Mortars |   |                           |                       |
|--|---|---------------------------|-----------------------|
| Type   | Minimum Compressive Strength, psi (MPa) | Water Retention Minimum % | Air content Maximum % |
| M  | 2500 (17.2)                             | 75                        | 12                    |
| S  | 1800 (12.4)                             | 75                        | 12                    |
| N  | 750 (5.2)                               | 75                        | 14 <sup>1</sup>       |
| O  | 350 (2.4)                               | 75                        | 14 <sup>1</sup>       |
| Masonry Cement Mortars                           |   |                           |                       |
| Type   | Minimum Compressive Strength, psi (MPa) | Water Retention Minimum % | Air content Maximum % |
| M  | 2500 (17.2)                             | 75                        | 18                    |
| S  | 1800 (12.4)                             | 75                        | 18                    |
| N  | 750 (5.2)                               | 75                        | 20 <sup>2</sup>       |
| O  | 350 (2.4)                               | 75                        | 20 <sup>2</sup>       |

<sup>1</sup>When structural reinforcement is included, the maximum air content shall be 12%

<sup>2</sup>When structural reinforcement is included, the maximum air content shall be 18%

### 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.

## PRECAUTIONS

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

## 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](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications*