

## 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 (36.2 kg) bags

### YIELD

• Each 80 lb (36.2 kg) bag of QUIKRETE® Mortar Mix will lay up to 37 standard bricks or 13 standard (8 in x 8 in x 16 in [200 mm x 200 mm x 405 mm]) blocks.

### TECHNICAL DATA

#### APPLICABLE STANDARDS

- ASTM International
- ASTM C 270 Specification for Mortar for Unit Masonry
  - 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 and ASTM C 1714 for the type selected. Refer to Appendix XI of ASTM C 270 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

04 05 13



### MIXING

- For each 80 lb (36.2 kg) bag, add 5 qt (4.7 L) of fresh water to mixer; for each 60 lb (27.2 kg) bag, add 4 qt (3.8 L)
  - 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 - Maximum water content is expected to be 6 qt (5.7 L) for each 80 lb (36.2 kg) bag and 5 qt (4.7 L) for each 60 lb (27.2 kg) bag.

### INSTALLATION

- Apply a full bed of mortar onto the base, approximately 1/2 in to 3/4 in (13 mm to 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 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 (5.1)	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 (5.1)	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.