



CEMENT & CONCRETE PRODUCTS™

MORTAR MIX

PRODUCT NO. 1102-10, -40, -60, -80, -30

DIVISION 4

04 05 13 Masonry Mortaring

PRODUCT DESCRIPTION

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

PRODUCT USE

QUIKRETE® Mortar Mix is a contractor 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 C270 and C1714 as Type N mortar. Other types are available by special request.

SIZES

QUIKRETE® Mortar Mix is available in the following bag sizes:

- 10 lb (4.5 kg)
- 40 lb (18.1 kg)
- 60 lb (27.2 kg)
- 80 lb (36.2 kg)
- 30 kg (66.1 lb)

YIELD

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

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C270 Standard Specification for Mortar for Unit Masonry
- ASTM C1714 Standard Specification for Preblended Dry Mortar Mix for Unit Masonry

PHYSICAL/CHEMICAL

QUIKRETE® Mortar Mix meets or exceeds the property requirements of ASTM C270 and ASTM C1714 for the type selected. Refer to Appendix XI of ASTM C270 for guidance in selecting the proper mortar type. See Table 1 for more information.

INSTALLATION

SURFACE PREPARATION

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

Mixing

WEAR IMPERVIOUS GLOVES, such as nitrile when handling product.

QUIKRETE® Mortar Mix can be hand mixed or can be machine mixed in a paddle-type mortar mixer. A minimum of 5 minutes of mixing is required. Add approximately 5 quarts (4.7 L) of clean water into the mixing container for each 80 lb (36.2) bag; for each 60 lb (27.2 kg) bag add 3-3/4 quarts (3.5 L). Slowly pour the contents of the bag(s) into the mixing water. Mix



until a firm, workable consistency is achieved. The ideal mortar consistency has been achieved when a 1/2 in (13 mm) thickness of mortar will not fall off your trowel when held in a near vertical position. If more water is needed, add small amounts at a time and continue to mix until the desired consistency is achieved. The maximum water content is expected to be below 6 quarts (5.7 L) for each 80 lb (36.2 kg) bag and 4-1/2 quarts (4.3 L) for each 60 lb (27.2 kg) bag

QUIKRETE® Mortar Mix is available in gray; additional colors may be available by special order.

Application

WEAR IMPERVIOUS GLOVES, such as nitrile when handling product. 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 smooth appearance.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Hydraulic Cement-Lime Mortars or Mortar 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 ¹
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 ²

¹When structural reinforcement is included, the maximum air content shall be 12%

²When 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

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. © 2020 Quikrete International, Inc.