

ANCHORING CEMENT – EXTERIOR USE

DIVISION 3

03-61-00 Cementitious Grouting

PRODUCT NO. 1245-11, -20, -50, -81, -12, -23

PRODUCT DESCRIPTION

QUIKRETE® Anchoring Cement – Exterior Use is a uniformly blended, properly proportioned mixture of graded sand, special cements, and proprietary ingredients, and requires on the addition of water to achieve a pourable consistency.



PRODUCT USE

QUIKRETE® Anchoring Cement – Exterior Use is a pourable, rapid-setting, expansive commercial grade construction product suitable for use in continuously wet environments. It is used to permanently set bolts, posts, handrails, machinery, pipes, and conduit in concrete. The mixture sets in 10 to 30 minutes expanding as it hardens to fill voids and lock itself securely into place.

SIZES

QUIKRETE® Anchoring Cement – Exterior Use is available in the following pail sizes:

- 10 lb (4.5 kg) pails
- 20 lb (9.1 kg) pails
- 50 lb (22.7 kg) pails

YIELD

A 50 lb (22.7 kg) pail of QUIKRETE® Anchoring Cement – Exterior Use will yield approximately 0.42 cu ft (11.9 L).

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM E488 Standard Test Method for Strength of Anchors in Concrete and Masonry Elements

PHYSICAL/CHEMICAL

Typical results obtained with QUIKRETE® Anchoring Cement - Exterior Use, when tested in accordance with the referenced ASTM Procedures, are shown in Table 1.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Setting Time, ASTM C191	
	10 to 30 minutes
Compressive Strength, ASTM C109 (Modified)	
<i>Age</i>	<i>PSI (MPa)</i>
2 Hours	2000 PSI (13.7 MPa)
24 Hours	4000 PSI (27.6 MPa)
7 Days	6000 PSI (41.3 MPa)
28 Days	7000 PSI (48.2 MPa)
Pull-Out Strength, ASTM E488	
<i>Age</i>	<i>PSI (MPa)</i>
24 Hours	14,100 lb-force (6395 kg-force)
28 Days	21,000 lb-force (9525 kg-force)

INSTALLATION

SURFACE PREPARATION

Use a masonry core drill or chisel to drill holes at least 1 in (25 mm) wider than the item to be anchored, and a minimum of 2 to 4 in (50 mm to 100 mm) deep. Increasing embedment depth will increase pullout strength. Remove all loose concrete and debris from hole. Dampen hole prior to pouring QUIKRETE® Anchoring Cement – Exterior Use. Remove standing water.

MIXING

Use a clean container and potable water. Combine 5 parts QUIKRETE® Anchoring Cement - Exterior Use with 1 part potable water by volume for a pourable mixture. Pour QUIKRETE® Anchoring Cement - Exterior Use into the water and mix vigorously until a pourable consistency is achieved. For vertical applications, reduce the amount of water for a putty-like consistency.

APPLICATION

With the bolt or post in place, pour mixed material into hole or void to slightly above floor level. Hold bolt or post in place until material begins to stiffen.

CURING

No special curing is required.

PRECAUTIONS

- Mix only the amount that can be used in 10 minutes.
- When making repairs, good color matching can be difficult. Preview a small quantity of the material in an inconspicuous area and allow it to cure before evaluating color and overall appearance.
- This material is reactive and may degrade unpainted aluminum.

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. © 2023 Quikrete International, Inc.