



1. Product Name

QUIKRETE® Exterior Use Anchoring Cement #1245-81

2. Manufacturer

The QUIKRETE Companies
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3. Product Description

BASIC USE

QUIKRETE Exterior Use Anchoring Cement is a rapid-setting, high strength, shrinkage compensated commercial grade construction product suitable for use in continuously wet environments. As it hardens, it expands slightly to fill voids and lock itself securely into place. Suitable for use with appliances, bolts, motors, posts, hooks, handrails, conveyors, pipes and conduits. Also may be used for fences, parking meters, columns, ornamental ironwork, seats, signs, rods, racks and door stops.

COMPOSITION & MATERIALS

QUIKRETE Exterior Use Anchoring Cement is made from special cements, additives and silica sand.

SIZE

- 6 lb (2.7 kg) pails
- 10 lb (4.5 kg) pails
- 50 lb (22.7 kg) pails

YIELD

A 50 lb (22.7 kg) pail will yield 0.42 cu ft (12 L).

COLOR

- Gray

LIMITATIONS

Hot temperatures will reduce setting time. At temperatures below 50 degrees F (10 degrees C), use warm water to mix.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- 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

APPROVALS

QUIKRETE Exterior Use Anchoring Cement is suitable for a wide range of construction applications. Consult manufacturer for current information on specific agency or code approvals.

PHYSICAL/CHEMICAL PROPERTIES

Typical results obtained with QUIKRETE Exterior Use Anchoring Cement, when tested in accordance with applicable standards, are shown in Table 1. Test reports are available to qualified design professionals upon request.

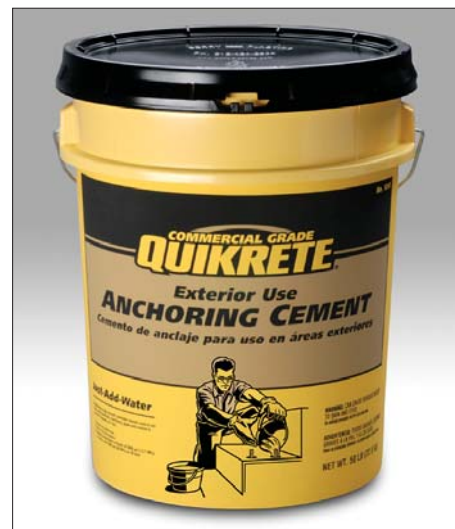
FIRE RATING

Contains no combustible materials.

5. Installation

PREPARATORY WORK

- Handle and store QUIKRETE Exterior Use Anchoring Cement according to QUIKRETE recommendations and label directions
- Use a masonry core drill or chisel to create a hole in the concrete
- Hole should be at least 1" (25.4 mm) larger than the size of bolt or railing. Hole should be at least



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2" - 4" (51 - 102 mm) deep. Increasing embedment depth will increase pullout strength

- Remove all loose concrete and debris from hole
- Dampen hole prior to pouring Anchoring Cement, but do not leave standing water in bottom of hole

METHODS

- Use clean container and clean water
- Mix by combining approximately 5 parts QUIKRETE Exterior Use Anchoring Cement with 1 part water for a pourable mixture
- Pour powder into water and mix vigorously
- Mix only enough QUIKRETE Exterior Use Anchoring Cement to be used within 10 minutes
- Reducing amount of water will yield a putty-like consistency for vertical applications
- Pour mixed material into hole or void to slightly

TABLE 1 EXTERIOR USE ANCHORING CEMENT - TYPICAL PHYSICAL PROPERTIES

Property	Values
Setting time, ASTM C191	10 - 30 minutes, final set
Compressive strength, ASTM C109	2000 psi (13.8 MPa) @ 2 hours
	4000 psi (27.6 MPa) @ 24 hours
	6000 psi (41.4 MPa) @ 7 days
	7000 psi (48.3 MPa) @ 28 days
Pull-out strength, ASTM E488 ¹	14,100 lb-force (6395 kg-force) @ 24 hours
	21,000 lb-force (9571 kg-force) @ 28 days

¹ Tested with a 1/2" (12.7 mm) diameter threaded bolt embedded to a depth of 8" (200 mm) in a 2" (51 mm) diameter hole which was bored in concrete with a compressive strength of approximately 4000 psi (27.6 MPa).

above floor level

- Hold bolt or post in place until material begins to stiffen

Note - No special curing is required.

PRECAUTIONS

Some dusting may occur during mixing process. Fresh cement mixtures may be irritating to skin. Wash skin exposed to fresh cement with clean water. Consult Material Safety Data Sheet (MSDS). Wear eye protection and appropriate safety equipment and clothing.

6. Availability

QUIKRETE Exterior Use Anchoring Cement is available at leading concrete construction supply houses and distributors. Contact QUIKRETE Construction Products for the name of the nearest dealer.

7. 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.

8. Maintenance

No maintenance is expected other than normal routine inspection.

9. Technical Services

The QUIKRETE Companies maintain technical field representatives throughout the country. Contact a local distributor for the name and number of the nearest representative or call QUIKRETE Construction Products.

10. Filing Systems

- Reed First Source
- Additional product information is available from the manufacturer.