



1. Product Name

QUIKRETE® Non-Shrink General Purpose Grout #1585-01

2. Manufacturer

The QUIKRETE Companies
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3. Product Description

BASIC USE

For the grouting of steel columns, bearing plates, precast concrete and anchors.

COMPOSITION & MATERIALS

QUIKRETE Non-Shrink General Purpose Grout is a nonmetallic Portland cement based material that contains expansive additives. This product requires only the addition of water.

SIZE

- 50 lb (22.7 kg) bags

COLORS

- Cement gray

YIELD

A 50 lb (22.7 kg) bag will yield 0.45 cu ft (12.7 L) at flowable consistency.

LIMITATIONS

- Not for use in precision grouting of machinery. (For precision grouting of machinery use

QUIKRETE Non-Shrink Precision Grout #1585-00.)

- Hot and cold temperature precautions, as they apply to concrete, should be followed

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C109/109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- ASTM C827 Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures
- ASTM C939 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
- ASTM C1090 Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout
- ASTM C1107 Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)

U.S. Army Corps of Engineers (USACE) - CRD 621

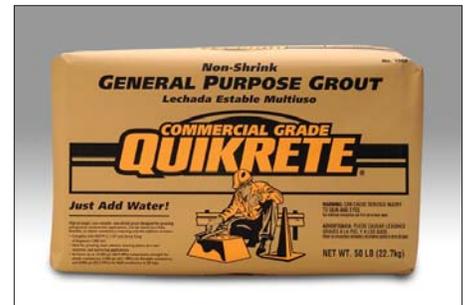
PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE Non-Shrink General Purpose Grout complies with the physical requirements of ASTM C1107 and CRD 621 when tested at 72 degrees F (22 degrees C).

5. Installation

PRECAUTIONS

- Additions of cement or other materials will eliminate the designed product qualities
- Water quantities may be affected by temperature, mixing method and batch size
- QUIKRETE Non-Shrink General Purpose Grout should not be retempered



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PREPARATION

- Surfaces to receive the grout must be free of any type of foreign material (grease, oil, paint, dust or efflorescence)
- It may be necessary to roughen smooth surfaces or etch old ones with acid. The area should be flushed and soaked with clean water
- Place the grout quickly and continuously using light rodding to eliminate air bubbles

MIXING

QUIKRETE Non-Shrink General Purpose Grout should be mechanically mixed for a minimum of 5 minutes. Add only enough water to achieve the flow required for the application. Approximate water contents listed in Table 2 are only a guideline. Do not add more water than the amount needed to produce a 20 second flow per Test Method ASTM C939.

WORKING TIME

Mix no more grout than can be placed in 15 minutes.

TEMPERATURE

Grout temperature should be maintained from 50 - 90 degrees F (10 - 32 degrees C). Use cold water in hot weather or hot water in cold weather to achieve desired grout temperature. Do not pour grout if temperature is expected to go below 32 degrees F (0 degrees C) within a 12 hour period.

TABLE 1 TYPICAL PHYSICAL PROPERTIES OF FRESHLY MIXED GROUT, ASTM C1107

Consistency range	Plastic	Flowable	Fluid
Temperature	72°F (22°C)	72°F (22°C)	72°F (22°C)
Compressive strength, ASTM C109 modified per ASTM C1107			
1 day	3000 psi (20.7 MPa)	3000 psi (20.7 MPa)	2000 psi (13.8 MPa)
7 days	9000 psi (62.0 MPa)	8000 psi (55.1 MPa)	6000 psi (41.3 MPa)
28 days	10,000 psi (68.9 MPa)	9000 psi (62.0 MPa)	8000 psi (55.1 MPa)
Height change, ASTM C1090			
@ 1, 3, 7 & 28 days	0 - 0.2%	0 - 0.2%	0 - 0.2%
Height change, ASTM C827			
	0%	0.3%	0.8%

TABLE 2 WATER REQUIREMENTS FOR 50 LB (22.7 KG) BAG

Method	Volume
Plastic	1 gal (3.8 L)
Flowable	1 gal + 1 pt (4.3 L)
Fluid	1 gal + 3 pt (5.2 L)



CURING

A damp cure of at least 3 days is necessary to control the nonshrink characteristics and maintain strength levels.

6. Availability

QUIKRETE Non-Shrink General Purpose Grout 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

None required.

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

Additional information is available from the manufacturer.