



CEMENT & CONCRETE PRODUCTS™

FAST-SETTING CONCRETE MIX

PRODUCT NO. 1004-50, 60, 66, 25

DIVISION 3

03 31 00 Structural Concrete

PRODUCT DESCRIPTION

QUIKRETE® Fast-Setting Concrete Mix is used for setting posts, sleeves and anchors, for pouring slabs 2 in (50 mm) or thicker, and for other applications where a fast-setting general purpose concrete is desirable.

PRODUCT USE

QUIKRETE® Fast-Setting Concrete Mix is a general-purpose concrete designed to achieve final set in 20 to 40 minutes. Fast-Setting Concrete Mix is suitable for setting posts and pouring slabs when a rapid return to service is desired.

SIZES

QUIKRETE® Fast-Setting Concrete Mix is available in the following bag sizes:

- 50 lb (22.6 kg)
- 60 lb (27.2 kg)
- 25 kg (55 lb) (Canada only)
- 30 kg (66 lb) (Canada only)

YIELD

- Each 50 lb (22.6 kg) bag yields approximately 0.375 cu ft (10.6 L)
- Each 60 lb (27.2 kg) bag yields approximately 0.45 cu ft (12.7 L)
- Each 25 kg (55 lb) bag yields approximately 0.41 cu ft (11.6 L)
- Each 30 kg (66 lb) bag yields approximately 0.5 cu ft (14 L)
- Two 50 lb (22.6 kg) bags of QUIKRETE® Fast-Setting Concrete Mix will set a 3 in (75 mm) square post in a 9 in (225 mm) diameter hole 30 in (0.75 m) deep.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C387 Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete

PHYSICAL/CHEMICAL

QUIKRETE® Fast-Setting Concrete meets or exceeds the compressive strength requirements of ASTM C387. When mixed to a 2 in to 3 in (50 mm to 75 mm) slump and tested in accordance with the referenced ASTM test methods in laboratory conditions, QUIKRETE® Fast-Setting Concrete will achieve the typical physical properties shown in Table 1.



TABLE 1 TYPICAL PHYSICAL PROPERTIES

Setting Time, ASTM C191	20 to 40 minutes
Compressive Strength, ASTM C39	
Age	PSI (MPa)
24 Hours	1000 (6.8)
7 Days	2500 (17.2)
28 Days	4000 (27.6)

INSTALLATION

MACHINE MIXING

QUIKRETE® Fast-Setting Concrete can be hand mixed or machine mixed in a barrel-type concrete mixer or a mortar mixer. Allow at least 3/4 cu ft (21 L) of mixer capacity for each 50 lb (22.6 kg) bag to be mixed at one time. Add approximately 4 pt (1.9 L) of potable water to the mixer for each 50 lb (22.6 kg) bag to be mixed. Turn on the mixer and begin adding concrete. If the material becomes too difficult to mix, add small amounts of water at a time and continue to work the mix until a workable consistency is obtained. Maximum water is expected to be below 5 pt (2.3 L) of water per 50 lb (22.6 kg) bag.

HAND MIXING

Empty bags into a suitable mixing container. Add approximately 4 pt (1.9 L) of potable water for each 50 lb (22.6 kg) bag. Work the mix with a shovel, rake or hoe; add water as needed until a stiff, moldable consistency is achieved. Be sure there are no dry pockets of material. Do not leave standing puddles of water. Maximum water is expected to be below 5 pt (2.3 L) of water per 50 lb (22.6 kg) bag.

Note: Water quantities listed are for 50 lb (22.6 kg) bags. For other package sizes, use the water quantity listed on the bag.

APPLICATION**Method for Setting Posts**

Start by digging the post hole about 3 times the diameter of the post. Hole depth should be 1/3 the overall post height. Place post into hole and temporarily stand straight. Pour dry mix into the hole until it is approximately 3 in to 4 in (75 mm to 100 mm) from the top of the hole. Add water into the dry mix until the powder is saturated. Depending on soil conditions, you will need approximately 1 gal (3.8 L) of water for each 50 lb (22.6 kg) bag. For holes deeper than 30 in (0.75 m), fill to a depth of 30 in (0.75 m) or less and wait until the water soaks all the way into the mix. Then add the remainder of the mix and water. Fill the upper 3 in to 4 in (75 mm to 100 mm) of the hole with sod or with the soil that was removed. Quikrete Fast-Setting Concrete Mix sets in 20 to 40 minutes. Wait 4 hours before post is subjected to any strain.

Method for Pouring a Slab

Start by dampening the sub-grade before concrete is placed. Do not leave standing puddles of water. Shovel or place concrete into the form; fill to the full depth of the form. Fill the repair area completely working continuously from one end to the other. Avoid partial depth fills which could lead to cold joints. After concrete has been compacted and spread to completely fill the forms without air pockets, strike off and float immediately. To strike off, use a straight board (screed), moving the edge back and forth with a saw-like motion to smooth the surface. Use a darby or bull float to float the surface; this will level any ridges and fills voids left by the straight edge. Cut the concrete away from the forms by running an edging tool or trowel along the forms to compact the slab edges. Cut 1 in (25 mm) deep control joints into the slab every 6 ft to 8 ft (1.8 m to 2.4 m) using a grooving tool. Allow concrete to stiffen slightly, waiting until all water has evaporated from the surface before troweling or applying a broom finish.

Note - For best results, do not overwork the material. Wait at least 4 hours before walking on the slab or placing heavy objects on the slab.

CURING**General**

Curing is one of the most important steps in concrete construction. Proper curing increases the strength and durability of concrete. Proper water content and temperature are essential for good curing. In near freezing temperatures, the hydration process slows considerably. When weather is too hot, dry or windy, water is lost by evaporation from the concrete and hydration stops, resulting in finishing difficulties and cracks. The ideal circumstances for curing are ample moisture and moderate temperature and wind conditions.

Specific Methods

- Because QUIKRETE® Fast-Setting Concrete is often used a few hours after placement, initial curing is very important. Use one of the following methods to cure the finished concrete:
- Apply QUIKRETE® Acrylic Concrete Cure & Seal - Satin Finish (No. 8730-02) with a garden sprayer, brush or roller after finishing and when the concrete surface has hardened but is still damp (not wet). Curing compounds should not be used if rain or temperatures below 60 °F (10 °C) are expected within 24 hours, or during late fall on surfaces where de-icers will be used to melt ice or snow.

- Concrete can also be moist cured by keeping the surface wet with a lawn sprinkler or by covering the concrete surface with plastic sheeting. Curing should be continued for a period of five days in warm weather [70 °F (21 °C) or higher] or seven days in cold weather [60 °F to 70 °F (10 °C to 21 °C)]. Curing with plastic can cause patchy discoloration in colored concrete. For colored concrete, moist curing or the use of QUIKRETE® Acrylic Concrete Cure & Seal - Satin Finish (No. 8730-02) is recommended.

PRECAUTIONS

- Mix only as much material as can be placed in 20 minutes.
- Because of the rapid setting time, special precautions must be taken, as set times will fluctuate in extremely hot or cold weather. Use cold water or water mixed with ice cubes in severely hot weather. Use hot water when mixing in severely cold weather.
- Protect concrete from freezing for at least 48 hours. Plastic sheeting and insulation blankets should be used if temperatures are expected to fall below 32 °F (0 °C).
- De-icers should not be used on fresh concrete before it has cured for a minimum of 28 days. Waiting 56 days or more is beneficial.

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. © 2025 Quikrete International, Inc.

* Refer to www.quikrete.com for the most current technical data and SDS
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