COMMERCIAL GRADE FastSet™ CONCRETE MIX  
PRODUCT NO. 1004-51

PRODUCT DESCRIPTION
QUIKRETE® Commercial Grade FastSet™ Concrete Mix is a high-strength, rapid hardening, pre-blended concrete requiring only the addition of water.

PRODUCT USE
QUIKRETE® FastSet™ Concrete is a fast-setting, high early strength concrete designed to build or repair concrete sidewalks, driveways, highways, bridge decks, concrete parking lots and concrete floors. Use at any thickness from 1 1/2" - 24" (38 - 610 mm). QUIKRETE® FastSet™ Concrete has less shrinkage than ordinary Portland cement concrete. QUIKRETE® FastSet™ Concrete Mix is available with an integral corrosion inhibitor in cases where maximum corrosion protection is desired. The addition of corrosion inhibitor has no adverse effect on the other physical properties of the product.

SIZES
• 70 lb (31.8 kg) bags

YIELD
• Each 70 lb (31.8 kg) bag of QUIKRETE® FastSet™ Concrete Mix will yield approximately 0.52 cu ft (14.7L) of mixed concrete.

TECHNICAL DATA
APPLICABLE STANDARDS
ASTM International
• ASTM C78 Standard Test Method for Flexural Strength for Concrete (Using Simple Beam with Third-Point Loading)
• 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 C928 Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs

PHYSICAL/CHEMICAL PROPERTIES
QUIKRETE® FastSet™ Concrete when tested in accordance with ASTM procedures provides typical results as listed in Table 1. QUIKRETE® FastSet™ Concrete meets the requirements of ASTM C928 Type R3. It can be modified to meet specific requirements of the Department of Transportation of various states.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting time, ASTM C191</td>
<td>Final</td>
</tr>
<tr>
<td>Slump, inches (mm) (per ASTM C928)</td>
<td>&gt; 3 (&gt; 76)</td>
</tr>
<tr>
<td>Compressive strength, ASTM C39</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>24 hours</td>
</tr>
<tr>
<td></td>
<td>7 days</td>
</tr>
<tr>
<td></td>
<td>28 days</td>
</tr>
<tr>
<td>Slant shear bond strength, ASTM C928</td>
<td>1 day</td>
</tr>
<tr>
<td></td>
<td>7 days</td>
</tr>
<tr>
<td>Shrinkage, ASTM C928</td>
<td>28 days in air (typical)</td>
</tr>
<tr>
<td></td>
<td>28 days in water (typical)</td>
</tr>
<tr>
<td>Scaling Resistance, ASTM C672</td>
<td>Visual</td>
</tr>
</tbody>
</table>

INSTALLATION
MIXING
• QUIKRETE® FastSet™ Concrete can be mixed in a barrel-type concrete mixer or a mortar mixer
• Allow about 1 cu ft (28 L) of mixer capacity for each 70 lb (31.8 kg) bag to be mixed at one time
• Add approximately 3 quarts (2.8 L) of fresh water to the mixer for each bag to be mixed
• Turn on the mixer and begin adding the dry concrete
• If the material becomes too difficult to mix, add additional water until a workable mix is obtained.
• Do not use more than 1 gal (3.8 L) of mixing water per bag
• Mixing must be completed in 3 - 4 minutes

**TEMPERATURE OF WATER**
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.

**PLACING**
• The forms, hole or sub-base should be thoroughly dampened
• Fill the forms completely working from one end to the other. Avoid partial depth lifts which could result in cold joints
• Consolidate the material using hand tamping and/or chopping with a shovel. It is particularly important to compact around the edges of the forms or patches
• Screed the surface, and then apply a trowel or broom finish as desired

**CURING**
QUIKRETE® FastSet™ Concrete is often placed in service within a few hours after it sets, so conventional moist curing methods are not practical. Sealing the surface with QUIKRETE® Concrete Cure and Seal – Satin Finish (#8730) after the concrete has hardened will ensure proper curing and provide an additional measure of protection against salt and water penetration. Under hot, dry and windy placing conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. The use of sheeting, monomolecular films (either sprayed or rolled on), as well as application of a very fine fog spray of water, has been quite successful in arresting shrinkage cracking.

**PRECAUTIONS**
• During extremely hot or dry conditions, cold water should be used to maintain mix at a moderate placement temperature
• Mix no more than can be used in 20 minutes

**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.

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* Refer to www.quikrete.com for the most current technical data, MSDS, and guide specifications