

# RAPID ROAD REPAIR - EXTENDED

PRODUCT NO. 1242-80

## PRODUCT DESCRIPTION

QUIKRETE® Rapid Road Repair® - Extended is a very high strength, rapid-hardening concrete designed to repair concrete highways, bridge decks, concrete parking lots and concrete floors needing repairs exceeding 2" (50mm) in depth.

## PRODUCT USE

QUIKRETE® Rapid Road Repair® - Extended is made from special blended cement with carefully graded sand and gravel to provide a permanent patch. It also contains alkali-resistant glass fibers for improved flexural performance essential for applications of severe vibration as in the repair of bridge decks. In most cases, traffic can be resumed 90 minutes after patching. QUIKRETE® Rapid Road Repair® - Extended can be used to replace sections of streets or highways, runways or taxiways of airports and other applications where quick return to service is desired.

## SIZES

- QUIKRETE® Rapid Road Repair® - Extended - 80 lb (36.3 kg) bags

## YIELD

- Each 80 lb (36.3 kg) bag of QUIKRETE® Rapid Road Repair® - Extended will yield approximately 0.6 cu ft (17 L).

## TECHNICAL DATA

### APPLICABLE STANDARDS

- ASTM C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C143 Standard Test Method for Slump of Hydraulic Cement Concrete
- 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® Rapid Road Repair® - Extended, when tested in accordance with ASTM procedures, provides results as listed in Table 1. QUIKRETE® Rapid Road Repair® - Extended meets the requirements of ASTM C928 Grade R2. It can be modified to meet specific requirements of the Department of Transportation in various states.

## DIVISION 32

Rigid Paving Repair  
32 01 29



### Rapid Road Repair® - Extended Physical Properties

|                          |                     |
|--------------------------|---------------------|
| Setting time, ASTM C 191 | Final 20 - 40 min.  |
| Slump, ASTM C 143        | 3-5 in. (76-127 mm) |

### Compressive strength, ASTM C 39

|            |                     |
|------------|---------------------|
| 90 minutes | 2000 psi (13.8 MPa) |
| 24 hours   | 4000 psi (27.6 MPa) |
| 7 days     | 5500 psi (37.9 MPa) |
| 28 days    | 6000 psi (41.4 MPa) |

## INSTALLATION

### SURFACE PREPARATION

- Remove all spalled areas and areas of unsound concrete where repair is to occur.
- If rusty reinforcing steel is present, it must be abrasive blasted to remove rust. Remove enough material to completely expose the reinforcing steel.
- The hole should have a vertical edge of 2" (51 mm) or more, formed by use of a pneumatic jackhammer or sawing. Holes should be chipped out to create a new, sound substrate.
- After the chipping process is completed, the repair area must be cleaned by water blasting or other suitable method.
- Dampen holes with clean water before patching. No puddles of water should be left in the hole.

### MIXING

- Use approximately 6 pints (2.8 L) of water per 80 lb (36.3 kg) bag; sparingly add water as required to achieve a slump of 3-5 inches (76-127 mm). Do not exceed 8 pints (3.8 L) of water.
- All tools and equipment used in the mixing and finishing process should be clean
- Place water in mixer. While mixer is running, add contents of bag
- Mix 4 to 5 minutes. The mix will appear stiffer than normal concrete
- Place in a wheelbarrow or other transporting vehicle. Place the mixture immediately after the mixing is completed

- For smaller quantities, a 5 gallon (19 L) bucket with a ½" (13 mm) drill and paddle mixer may be used to mix the material.

#### **APPLICATION**

- The hole should be filled by placing material full depth, from one end to the other to eliminate partial depth lifts between batches.
- Consolidate the material in the hole by hand tamping or chopping with a shovel. This is particularly important around the edges.
- Screed and finish patches with hand tools to create a surface finish equivalent to the existing slab finish.

#### **CURING**

No curing membranes or compounds are required. Traffic can be allowed over the patch in approximately 90 minutes if the temperature is 70 degrees F (21 degrees C) or above. Cure under ambient conditions. Do not moist cure.

During extremely hot or dry conditions, cold water should be used to maintain mix at a moderate placement temperature.

Alternately, in cold weather, use hot water. In sub-freezing weather, use hot water and cover the repair with insulation blankets overnight.

- QUIKRETE Rapid Road Repair® - Extended must be properly placed in a space surrounded by sound, high quality previously hardened concrete.
- Working time is 10-20 minutes and will fluctuate: shorter during severe hot weather and longer during cold weather
- Do not subject to de-icing salts for at least 7 days after placement.

#### **PRECAUTIONS**

- Mix no more than can be used in 30 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.

The QUIKRETE® Companies  
One Securities Centre  
3490 Piedmont Rd., NE, Suite 1300, Atlanta, GA 30305  
(404) 634-9100 • Fax: (404) 842-1425

*\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications*

