



COMMERCIAL GRADE FASTSET™ REPAIR MORTAR

PRODUCT NO. 1241-60, -50, -20

DIVISION 3

Maintenance of Concrete
03 01 00

PRODUCT DESCRIPTION

QUIKRETE® Commercial Grade FastSet™ Repair Mortar is a polymer modified, rapid setting repair material specially formulated to make structural repairs to any concrete or masonry surface.

PRODUCT USE

QUIKRETE® Commercial Grade FastSet™ Repair Mortar demonstrates low sag, making it ideal for vertical or overhead repairs. QUIKRETE® FastSet™ Repair Mortar is available with 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. This product can be built up to at least 1 1/2" (38 mm) in one application. Its unique properties allow the user to actually sculpt the material during application. Use to repair concrete cracks, curbs, steps, pre-stressed panels, pipe, tunnels, sewers, loading docks, silos, retaining walls, culverts, catch basins, decorative moldings, bridge columns, parapet walls, septic tanks, cold storage vaults, virtually any vertical or overhead concrete surface.

SIZES

• QUIKRETE® Commercial Grade FastSet™ Repair Mortar - 60 lb (27.2 kg) bags, 50 lb (22.7 kg) and 20 lb (9 Kg) pails

YIELD

• Each 60 lb (27.2 kg) bag of QUIKRETE® FastSet™ Repair Mortar will yield 0.54 cu ft (15 L) of material. QUIKRETE® FastSet™ Repair Mortar can be extended with up to 30 lb (13.6 kg) of -1/2" (-12.7 mm) maximum size aggregate per 60# bag for deep repairs.

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International

- ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C157/C157M Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete
- ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C882 Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear
- ASTM C928 Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs

PHYSICAL/CHEMICAL PROPERTIES

Typical test results for QUIKRETE® FastSet™ Repair Mortar, when tested in accordance with applicable ASTM Test Methods, are shown



in Table 1. Product meets the requirements of ASTM C928 Type R2 with reduced flow for vertical and overhead applications.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Setting time, ASTM C191	
Initial	Approx. 20 min.
Final	20 - 40 min.
Approx. water content / 60# bag	1 3/8 gal (5.2 L)
Consistency	gel-like
Unit weight, lb/cu ft (kg/m3)	128 (2051)
Compressive strength, ASTM C109 modified	
3 hours	2000 psi (13.8 MPa)
24 hours	4000 psi (27.6 MPa)
7 days	5000 psi (34.5 MPa)
28 days	6000 psi (41.4 MPa)
Slant shear, ASTM C882 modified	
24 hours	1000 psi (6.9 MPa)
7 days	1500 psi (10.3 MPa)
28 days	2500 psi (17.2 MPa)
Length change, ASTM C157 (typical)	
28 days, air	-0.1%
28 days, water	+0.1%

INSTALLATION

SURFACE PREPARATION

- Remove all spalled areas, as well as areas of unsound concrete and previous patching materials
- Holes should be chipped out to create a new sound substrate
- If rusty reinforcing steel is present, it must be abrasive blasted to remove rust. In many cases, it will be best to remove enough material to completely expose the reinforcing steel
- Large vertical or overhead patches deeper than 2" (51 mm) should contain reinforcing steel. If none is present, new steel should be inserted using appropriate techniques
- Holes should be dampened with clean water before patching. No puddles of water should be left in the hole

MIXING

- Add approximately 1 3/8 gal (5.2 L) of water to the mortar mixer for each 60 lb (27.2 kg) bag of QUIKRETE® FastSet™ Repair Mortar being mixed
- Add the product and mix for approximately 3 minutes. Adjust water as needed to achieve a stiff gel-like consistency
- Where large quantities of material are used for patches deeper than 2" (51 mm), QUIKRETE® FastSet™ Repair Mortar may be extended with 30 lbs (13.6 kg) of -1/2" (-12.7 mm) aggregate per 60 lb (27.2 kg) bag. This will require approximately 6 qt (5.7 L) of water depending on the dampness of the aggregate.

APPLICATION

QUIKRETE® FastSet™ Repair Mortar should be trowel applied to the damp surface. Apply a thin layer with heavy trowel pressure, and then

go back and build up to the desired thickness. QUIKRETE® FastSet™ Repair Mortar obtains high bond strength without the use of bonding adhesives or acrylic additives. After initial set, the material may be trimmed and shaped to match the existing contours of the patch area.

CURING

During the first 24 hours, it is best to keep the patch covered or damp to prevent excessive loss of water. 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

- Do not apply when temperatures are below 40 degrees F (4 degrees C) or are expected to drop below 32 degrees F (0 degrees C) within 24 hours
- In hot weather, use cool mixing water to lengthen setting time
- Mix no more material than can be used in 15 minutes
- Do not re-temper with additional water

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 under the authority of The Quikrete Companies, LLC. © 2018 Quikrete International, Inc.

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