QUIKRETE®

CEMENT & CONCRETE PRODUCTS™

MULTI-PURPOSE RESURFACER

CONCRETE

PRODUCT NO. 1131-45

DIVISION **3**

Maintenance of Concrete
03 01 00

PRODUCT DESCRIPTION

QUIKRETE® Multi-Purpose Concrete Resurfacer is a polymer modified, Portland cement based, trowel applied repair material designed to provide a new, durable and wear resistant surface over worn or scaling concrete for vertical and horizontal applications.

PRODUCT USE

QUIKRETE® Multi-Purpose Concrete Resurfacer is a special blend of Portland cement, sand, polymer modifiers and other additives designed to provide a high performance repair material, for making thin repairs to sound concrete which is in need of surface renewal.

SIZES

• QUIKRETE® Multi-Purpose Concrete Resurfacer - 40 lb (18.1 kg) bags

YIELD

• Each 40 lb (18.1 kg) bag of QUIKRETE® Multi-purpose Concrete Resurfacer will cover approximately 17 ft^2 (1.6 m^2) of surface at a thickness of 1/4" (6.4 mm).

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)*

PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Multi-Purpose Concrete Resurfacer achieves the typical test results shown in Table 1 when tested in accordance with the appropriate ASTM standard test methods.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Water needed per bag	Approx. 5 pints (2.4 L)
Flow rate	105 – 115% (flow table, 25 drops)
Compressive strength, ASTM C109 (air cured)	
7 days	3500 psi (24.1 MPa)
28 days	5000 psi (34.5 MPa)

INSTALLATION

SURFACE PREPARATION

Old concrete must be rigorously cleaned to ensure proper adhesion of Concrete Resurfacer to the old surface. Follow these easy steps to prepare the surface:

Manual Cleaning of Debris from Surface

• Wash, sweep, scrape, chip, or grind the surface to remove loose concrete and foreign materials such as paint, greasy residue, algae, mildew or other materials which may be stuck to the old surface

Pressure Washing

• Clean the surface using a 3500 psi (24 MPa) pressure washer
• Follow pressure washer manufacturer's instructions as to safe operation and effective use
• Hold the wand a few inches from the surface to strip away all foreign and loose materials

CONCRETE REPAIRS

Repairs to damaged concrete must be made before resurfacing can be initiated. This is to return the surface to its original condition. Repair and level to the surrounding grade all badly damaged areas using the appropriate concrete repair product made by The QUIKRETE® Companies such as Commercial Grade FastSet™ Repair Mortar or QUIKRETE 5000 Concrete Mix. Allow repair material to cure thoroughly before applying resurfacer. Spalled and pitted surfaces can be repaired with Multi-Purpose Concrete Resurfacer.

CRACK REPAIR

• Cracks can be widened, cleaned, and filled with Multi-Purpose Concrete Resurfacer
• Existing control joints should be maintained
• Reflective cracking into the new surface cannot be completely prevented, especially if the slab does not contain adequate control joints or if slab settlement occurs
• Old expansion joints must be retained and new material installed to raise the expansion joints to the projected new height

PLANNING THE PLACEMENT

• For thicker toppings, use form boards or other leveling/slope guides. The guides should be sturdily fixed in place, but removable after the job is finished
• Mask off surrounding areas
• Section off the work into areas no larger than approximately 100 ft^2 (9.3 m^2)
• Control joints and expansion joints can usually be used as natural breaking points. It is essential that control joints and expansion joints be maintained. Protect the joints to prevent spillage of the Multi-Purpose Concrete Resurfacer into these joints. Duct tape or weather-stripping is helpful for protecting joints and surrounding areas

BRUSH COAT APPLICATION

For vertical surfaces, dampen the substrate thoroughly. Mix Multi-Purpose Concrete Resurfacer to a thick slurry consistency; apply with a masonry or wallpaper brush.

MIXING

Mix in a 5 gal (19 L) bucket with a 1/2" (13 mm) drill and paddle mixer. For a decorative effect, add QUIKRETE® Liquid Cement Colors to the water following the instructions on the bottle. Use about 4.5- 6 pt (2.1 – 2.8 L) of water per 40 lb (18.1 kg) bag. Add the powder to the water and mix for about 5 minutes to a lump-free mortar consistency. If mix is too thick, SPARINGLY add water to reach the desired consistency. Larger quantities can be mixed using a mortar mixer.

Multi-Purpose Concrete Resurfacer has a working time of about 40-60 minutes at 73°F (23°C). In hotter weather, the working time will be reduced. Use cold water to increase working time.

APPLICATION

• Saturate the surface and remove any standing water from low places.
• Spread the prepared mix onto the old surface
• Force a thin layer of material into the surface with heavy trowel pressure, then build up to the desired thickness
• To achieve even, consistent patterns apply the Multi-Purpose Concrete Resurfacer from side to side, beginning at one end of the area and working toward the other. Work from one expansion or control joint to the next, screeding to a smooth uniform thickness before stopping. Continue in this manner until the entire job has been evenly completed
• If the mix becomes too stiff to use properly one time only, a very small amount of clean water will return it to its original consistency.
• Apply a final broom finish or trowel finish when the applied material begins to lose its' sheen. Finishing time will be extended in cool weather

Note - Unlike regular concrete, Concrete Resurfacer is finished before it hardens. Edge and groove with conventional tools for a professional finished look. Grooves must be made over old grooves. Expansion joints must be maintained.

ADVERSE TEMPERATURE CONDITIONS

Cold weather

Do not apply at temperatures below 50°F (10°C). In cool weather, use warm water (approximately 120°F (49°C)) to speed setting time.

Hot weather

Special procedures are required when temperatures will exceed 90°F (32°C). When possible, work in shaded areas during cool times of the day. Use cold water to dampen the surface prior to application. Store product in cool area prior to use. Mix with ice water to reduce product temperatures. Moist curing should begin as soon as product is hardened enough to not be damaged by a gentle mist of water. Continue moist curing for 24 to 48 hours prior to use.

CURING

Under normal conditions, no special curing is required. Wait 24 hours before allowing foot traffic on the surface. Allow 72 hours for vehicle traffic. With cool temperatures, allow longer curing time prior to use. Protect from rain for the first 4 - 6 hours. Do not cover unless immediate rain protection is necessary. During extreme wind and sun conditions, moist cure with a water fog spray twice daily for 24 - 48 hours after application. For a more stain resistant surface, apply QUIKRETE® Concrete Cure & Seal – Satin Finish no sooner than 24 hours after placement.

PRECAUTIONS

• Temperature, wind velocity, direct sunlight and shading, as well as dampness or dryness of the surface receiving the material, have an effect on the finished depth of color
• Do not apply unless temperature of dampened surface will be above 50°F (10°C) for 8 hours after placement and will not be below freezing for 24 hours after placement
• Concrete to be resurfaced must be kept damp. If surface to be coated becomes dry, re-dampen before proceeding
• Low areas must be swept to remove standing water
• Old cracks can reappear due to movement in the base concrete
• Apply only to bare concrete. Do not apply to painted or sealed surfaces

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.

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