

QUIKRETE® Multi-Purpose Concrete Resurfacer No. 1131-45

Product Description

QUIKRETE Multipurpose 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.

Packaging

- 40 lb (18.1 kg) bags

Yield

One 40 lb (18.1 kg) bag of QUIKRETE Multipurpose Concrete Resurfacer will cover approximately 17 ft² (1.6 m²) of surface at a thickness of 1/4" (6.4 mm).

Colors

QUIKRETE Multipurpose Concrete Resurfacer is cement gray in color and can be colored with QUIKRETE Liquid Cement Color (#1317) or with other pigments approved for use in concrete and masonry products.

Limitations

- 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 degrees F (10 degrees 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



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 Multipurpose Concrete Resurfacer achieves the typical test results shown in Table 1 when tested in accordance with the appropriate ASTM standard test methods.

Table 1: Performance Data

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)

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:

CEMENT & CONCRETE PRODUCTS™**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 one of the concrete repair products 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 Multipurpose Concrete Resurfacer.

Crack Repair

- Cracks can be widened, cleaned and filled with Multipurpose 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 about 100 ft³ (9.3 m³)
- 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 Multipurpose 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" (12 mm) drill and paddle mixer. For a decorative effect, add QUIKRETE^a 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.

Working Time

Multipurpose Concrete Resurfacer has a working time of about 40-60 minutes at 73 degrees F (23 degrees 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 Multipurpose 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

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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 degrees F (10 degrees C). In cool weather, use warm water (approximately 120 degrees F (49 degrees C)) to speed setting time.

Hot weather: Special procedures are required when temperatures will exceed 90 degrees F (32 degrees 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 Sealer no sooner than 24 hours after placement.