# RE-CAP CONCRETE RESURFACER

PRODUCT NO. 1131-47

DIVISION **3**

Maintenance of Concrete 03 01 00
Concrete Restoration & Repair 03 90 00
Concrete Resurfacers 03 92 00

## PRODUCT DESCRIPTION

QUIKRETE® Re-Cap Concrete Resurfacer is a polymer-modified Portland cement based product designed for making thin layer repairs and restoring the appearance of existing worn or scaled concrete surfaces.

### PRODUCT USE

QUIKRETE® Re-Cap Concrete Resurfacer is a special blend of Portland cement, sand, polymer and other additives designed to provide a shrinkage compensated repair material. QUIKRETE® Re-Cap Concrete Resurfacer is designed to provide a new, durable, and wear-resistant surface over worn or scaled concrete.

- Apply from feather edge of 1/16 in to 1/2 in thickness.
- Apply using squeegee, trowel or brush.
- Superior bond strength to old concrete surface.
- Walk on in 6 hours and drive on in 24 hours.
- Superior flow and finish.

### SIZE

- 40 lb (18.1 kg) bags.

### YIELD

- One 40 lb (18.1 kg) bag of Re-Cap Concrete Resurfacer will cover approximately 17 $ft^2$ (1.6 $m^2$) of surface at a thickness of 1/4 in (6 mm) or approximately 65 $ft^2$ (6.0 $m^2$) per bag when applied at the 1/16 in (2 mm) thickness with a broom or squeegee.

### COLORS

QUIKRETE® Re-Cap Concrete Resurfacer is grey in color and can be colored with QUIKRETE® Liquid Cement Color (#1317) or with other pigments approved for use in concrete and masonry products. QUIKRETE® Re-Cap Concrete Resurfacer has been designed to match typical concretes in color. Concrete colors vary. Determine color is acceptable by mixing a small amount, placing it in an inconspicuous area, and allowing it to harden overnight before proceeding with the entire project. Re-Cap Concrete Resurfacer color will also vary depending on water added, curing conditions and variations in the underlying concrete.

### TECHNICAL DATA

APPLICABLE STANDARDS
ASTM International

- ASTM C109/C109M *Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in [50-mm] Cube Specimens).*
- ASTM C157/C157M *Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar and Concrete*
- ASTM C1708/C1708M *Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements*


QUIKRETE® Re-Cap Concrete Resurfacer (#1131-47) achieves the typical test results shown in Table 1 when tested in accordance with the appropriate ASTM standard test methods.

| **TABLE 1 QUIKRETE® RE-CAP CONCRETE RESURFACER (#1131-47) PERFORMANCE DATA** [1] | |
|---|---|
| Squeegeeable/brushable consistency water per bag | Approx. 2 1/2 qt – 3 qt (2.4 L–2.8 L) |
| Flow (ASTM C1708) | 5.1 to 5.5 in (130 to 140 mm) |
| Compressive strength, ASTM C109 (air cured) | |
| 1 day | 1000 PSI (6.9 MPa) |
| 7 days | 4000 PSI (31.0 MPa) |
| 28 days | 5000 PSI (37.9 MPa) |
| Trowelable consistency water per bag | Approx. 2 1/4 qt (2.1 L) |
| Flow (ASTM C1708) | 4.3 to 4.7 in (110 to 120 mm) |
| Compressive strength, ASTM C109 (air cured) | |
| 1 day | 1500 PSI (12.4 MPa) |
| 7 days | 5000 PSI (37.9 MPa) |
| 28 days | 6000 PSI (44.8 MPa) |
| Length change, ASTM C157/C157M (squeegeeable/trowelable consistency) | |
| Stored in water | < +0.15% |
| Stored in air | > -0.15% |
| Tensile Bond Pull off Strength, ASTM C1583/C1583M | |
| 7 days | 400 PSI (2.7 MPa) |

[1] *Standard laboratory condition.*

## INSTALLATION

The specifications and information herein are provided for the cleaning, rehabilitating and resurfacing of aged, dirty and stained concrete driveways, sidewalks and floors. By following the step-by-step instructions provided, old, worn-out concrete surfaces can be transformed into attractive, new-looking durable surfaces.

Tools Needed

- 2500 PSI (17.2 MPa) pressure washer
- 2 to 4 $ft^3$ (56 to 113 L) mortar mixer with rubber scrapers in good condition (or 1/2 in electrical drill and Jiffy® mixer paddle for small jobs)
- Two 5 gal (19 L) buckets for water
- Floor broom (with long handle, sufficient to reach across the work area), concrete finishing broom
- Squeegee (with long handle) and round-ended trowels
- Masonry brush
- Water hose
- Quart measuring cup and buckets for carrying materials
- Duct tape
- Builder's paper for covering adjacent areas (plants, walls, concrete not to be resurfaced, etc.)

## SURFACE PREPARATION

Old concrete must be rigorously cleaned to ensure proper adhesion of Re-Cap 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 2500 PSI (17.2 MPa) pressure washer

NOTE: This step is essential in order to ensure a proper bond.

• Follow pressure washer manufacturer's instructions as to safe operation and effective use.

Penetrated oil or grease stains can be removed by acid washing, detergent washing or bleaching following manufacturer's instructions. Acid washing can damage the existing concrete if not performed properly. Be sure to rinse thoroughly with water to remove traces of cleaning solutions. Incomplete rinsing of the surface will interfere with performance of the Re-Cap Concrete Resurfacer.

## CONCRETE REPAIRS

Repairs to damaged concrete must be made before resurfacing can be initiated. Repair and level to the surrounding grade all badly damaged areas using one of the concrete repair products made by the QUIKRETE® Companies. Allow repair material to cure thoroughly before applying Re-Cap Concrete Resurfacer.

## SPALLED AND PITTED SURFACES REPAIR

• Spalled and pitted surfaces may be repaired with Re-Cap Concrete Resurfacer mixed to a trowelable consistency.

## CRACK REPAIR

• Cracks must be widened, cleaned and filled with Re-Cap Concrete Resurfacer mixed to a trowel-able consistency.

• 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

## CURB & EDGE REPAIRS

Repair the edges of broken concrete with QUIKRETE® Quick Setting Cement (#1240) mixed with QUIKRETE® Concrete Acrylic Fortifier (#8610) or QUIKRETE® FastSet™ Repair Mortar (#1241).

## PREPARATION FOR SLOPE & SURFACE

•No forms are needed for toppings less than 1/8in (3.2 mm).

• 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.

• Build up to the desired thickness in thin layers, each not exceeding 1/4 in (6.3 mm) in thickness.

## PLANNING THE PLACEMENT

• Section off the work into areas no larger than about 144 $ft^2$ (13.4 $m^2$)

• 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 Re-Cap Concrete Resurfacer into these joints. Duct tape or weather-stripping is helpful for protecting joints and surrounding areas.

## MIXING

Mix in a 5 gal (19 L) bucket with a 1/2 in (12 mm) drill and paddle mixer. For squeegeeable/brushable consistency use approximately 2 1/2 qt to 3 qt (2.6 to 2.8 L) of water per 40 lb (18.1 kg) bag. Add the powder to the water while mixing and mix for 2 minutes to a lump-free pourable consistency. Allow the mixed product to rest undisturbed for about 1 to 2 minutes, and then remix for 1 minute. Larger quantities can be mixed using a mortar mixer or simultaneously mixed in several 5 gallon buckets using multiple drill and paddle mixers. For a decorative effect, add Quikrete Liquid Cement Colors to the water following the instructions on the bottle.

For a trowelable consistency, use approximately 2 1/4 qt (2.1 L) of water per 40 lb (18.1 kg) bag.

## APPLICATION

Water the existing concrete surface to saturated condition. Then completely remove any standing water from all places especially from low elevation spaces.

## FIRST COAT USING SQUEEGEE APPLICATION

• Pour and spread with a long-handled squeegee, a thin layer of mixed material onto the concrete surfaces.
• Use sufficient pressure to work the material into the surface pores and build to a nominal 1/16 in to 1/8 in (1.6 mm to 3.2 mm) thickness. Do not overwork.
• Finish off hard-to-reach corners and edges with a masonry brush.

## FIRST COAT USING TROWEL APPLICATION

• Pour the prepared mix onto the concrete surfaces.
• Force a thin dash coat of material into the surface using a trowel.
• Build up to nominal 1/16 in to 1/4 in (1.6 mm to 6.3 mm) thickness.

## RECOMMENDED OPTIONAL SECOND COAT

• Before applying second coat, allow the first coat to remain undisturbed for minimum of 3 hours. Wait until the surface is able to withstand light foot traffic.
• Gently apply a light mist of water over the first coat.
• The second coat must be applied within 24 hours of the first coat. Otherwise, the pressure washing technique used for preparation for the first coat must also be performed. Exercise caution to avoid washing off the first coat.
• Mix the material to the desired working consistency.
• Apply the material to the desired total thickness, up to 1/2 in (13 mm).

## FINISHING AND EXTRA TIPS

• To give a professional appearance, apply broom finish when surface get thumb print hard. Be sure all the broom strokes are in the same direction, opposite the flow of traffic.
• If desired, a concrete edger and groover can be used to give a finished look around the edges when the material reaches appropriate hardness.
• To achieve even, consistent patterns, apply the Re-Cap Concrete Resurfacer from beginning at one end of the area and working toward the other. Ensure adequate labor is available so this process does not get interrupted. Work from one expansion or control joint to the next, squeegeeing to a smooth uniform thickness before stopping. Continue in this manner until the entire job has been evenly completed.
• Finishing time will be reduced in hot weather and will be extended in cold weather.

## PRECAUTIONS

• This product helps to provide a consistent surface appearance. However, variations in the underlying concrete and repairs may reflect minor shadows from the Re-Cap Concrete Resurfacer.
• Temperature, relative humidity, wind velocity, sunlight and shading, as well as dampness or dryness of the surface receiving the material, have an effect on the final color of the Re-Cap Concrete Resurfacer.
• Do not apply the material in direct sunlight. Apply the material early in morning or late in afternoon.
• Concrete to be resurfaced must be kept damp. If the surface to be coated becomes dry, re-dampen before proceeding.
• Old cracks can reappear due to movement in the base concrete.
• For Squeegee application - mix no more material than can be used in 20 minutes; For Trowel application - mix no more material than can be used in 10 minutes.
• Apply only to bare concrete. Do not apply to painted or sealed surfaces.
• Mix only with potable water; do not use QUIKRETE® Concrete Acrylic Fortifier (#8610).
• Do not apply product over acrylic or polyurethane crack fillers, including but not limited to QUIKRETE Concrete Crack Seal, QUIKRETE® Blacktop Crackseal, QUIKRETE® Concrete Repair or QUIKRETE® Self-Leveling Polyurethane Sealant.

## WORKING TIME

At squeegee consistency (2 1/2 qt to 3 qt water) Re-Cap Concrete Resurfacer has a working time of about 20 minutes at 73 degrees F (23 degrees C). If the product begins to set in the bucket within this time, remix before using. Do not retemper with extra water. Wait 6 hours before allowing foot traffic on the surface. Allow 24 hours for vehicle traffic.

## ADVERSE TEMPERATURE CONDITIONS

For the application, temperature of air and concrete surfaces should be in the range of 50 degrees F (10 degrees C) to 90 degrees F (32 degrees C). For application outside of this range (50 degrees F to 90 degrees F) contact Quikrete Technical Services.

## CURING

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 - 48 hours prior to use. Protect from rain for at least 8 hours. Do not cover unless immediate rain protection is necessary. When covering, use sheet plastic.
Note: - Color may be affected where plastic comes into direct contact with Re-Cap Concrete Resurfacer.

## WARRANTY

**NOTICE:** Obtain the applicable **LIMITED WARRANTY** at https://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
Revised 25 July 2018