RE-CAP® TROWEL GRADE CONCRETE RESURFACER

PRODUCT NO. 1131-46

DIVISION **3**

03 01 00 Maintenance of Concrete

PRODUCT DESCRIPTION

QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer is a polymer modified and shrinkage-compensated, high strength portland cement-based repair material designed for horizontal concrete repairs of large and small areas.

PRODUCT USE

QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer is designed to make large and small area horizontal repairs to spalled, cracked, or pitted concrete floors, driveways, sidewalks, steps, or any other horizontal concrete surface. QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer is a versatile product that can be used indoors or outdoors and is easy to apply to old concrete or masonry surfaces. QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer has good durability and low shrinkage. It bonds excellently to clean, structurally sound concrete without the need for a bonding agent.

- Apply from 1/16 in to 1/2 in (1.6 mm to 13 mm) thick
- High bond strength to old concrete surface
- Formulated for reduced shrinkage
- Walk on in 3 hours and drive on in 24 hours

SIZES

- 20 lb (9 kg) pail

YIELD

Each 20 lb (9 kg) pail of QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer will yield 0.17 ft^3 (4.8 L) of material.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in [50-mm] Cube Specimens)
- ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar and Concrete
- ASTM C1583 Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)
- ACI 305R Guide to Hot Weather Concreting
- ACI 306R Guide to Cold Weather Concreting

PHYSICAL/CHEMICAL

Typical results obtained for QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer, when tested in accordance with the referenced ASTM procedures, are shown in Table 1.

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, distressed concrete surfaces can be transformed into attractive, new-looking durable surfaces.

SURFACE PREPARATION

Old concrete must be rigorously cleaned to ensure proper adhesion of QUIKRETE® Re-Cap® Trowel Grade 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 minimum 2500 PSI (17.2 MPa) pressure washer.
  ***NOTE**: This step is essential 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 with QUIKRETE® Oil Stain Remover (No. 8670-06) or detergent washing. Be sure to rinse thoroughly with water to remove traces of cleaning solutions. Incomplete cleaning and rinsing of the surface will interfere with performance of the QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer. Prior to application of the material the repair area should be wet, without standing water.

PLANNING THE PLACEMENT

Section off the work into areas that can be completed in 20 minutes. Larger areas can be covered if sufficient labor is available. It is essential that control joints and expansion joints be maintained. Protect the joints

to prevent spillage of the QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer into these joints. Duct tape or weather-stripping is helpful for protecting joints and surrounding areas.

MIXING

Mix in the 20 lb (9 kg) pail with a 1/2 in (13 mm) drill and paddle mixer. Mechanical mixing allows all ingredients blend properly resulting in a creamier and smoother consistency without the need for additional water. Use approximately 1-1/4 qt to 1-1/2 qt (1.2 to 1.4 L) of water per 20 lb (9 kg) pail. Add the powder to the water while mixing and mix for 3 minutes to a stiff gel-like consistency. Do not overwater, additional water will change the workability and lower its strength. Do not mix more material than can be placed in 20 minutes.

APPLICATION

Trowel apply the QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer to the damp surface. Apply a thin layer with heavy trowel pressure, and then go back and build up to the desired thickness. Do not over trowel.

To give a professional appearance, apply a broom finish when the surface is thumb print hard. Be sure all the broom strokes are in the same direction, and they are perpendicular to 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 QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer starting at one end of the area and working towards the other. Ensure adequate labor is available so this process is not interrupted.

CURING

Moist curing should begin as soon as the product has hardened enough to not be damaged by a gentle mist of water. Continue moist curing for 24 to 48 hours. Protect from rain for at least 3 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 QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer*

PRECAUTIONS

- Old cracks can reappear due to movement in the base concrete.
- Temperature, relative humidity, wind velocity, sunlight, and shading, as well as dampness or dryness of the surface receiving the material, influence the final color of the QUIKRETE® Re-Cap® Trowel Grade Concrete Resurfacer.
- Apply only to bare concrete. Do not apply to painted or sealed surfaces.
- Concrete to be repaired must be kept damp. If the surface to be repaired becomes dry, re-dampen before proceeding.
- Mix no more material than can be used in 20 minutes.
- Follow ACI 305R when using product in hot weather. An example of an additional step would be using cold water when mixing in extremely hot weather.
- Follow ACI 306R when using product in cold weather. Examples of additional steps would be using hot water when mixing in severely cold weather and using plastic sheeting and insulation blankets if temperatures are expected to fall below 32 °F (0 °C).
- For best results, do not overwork the material.
- When making repairs, good color matching can be difficult. Preview a small quantity of the repair material in an inconspicuous area and allow it to cure before evaluating color and overall appearance.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Water per 20 lb (9 kg) Pail	Approximately 1-1/4 qt to 1-1/2 qt (1.2 L to 1.4 L)
Compressive Strength, ASTM C109 (Modified)	
Age	*PSI (MPa)*
1 day	3000 (20.6)
7 days	4000 (27.5)
28 days	5000 (34.4)
Length Change, ASTM C157	
28 days in air	> -0.10%
Tensile Strength by Direct Tension (Pull Off Method), ASTM C1583	
Age	*PSI (MPa)*
7 days	≥ 400 (2.7)

SAFETY

IMPORTANT: Read Safety Data Sheet carefully before using. **WEAR IMPERVIOUS GLOVES**, such as nitrile, mask, and eye protection.

DANGER: Causes sever skin burns and serious eye damage. Prolonged or repeated inhalation of dust may cause lung damage or cancer.

KEEP OUT OF REACH OF CHILDREN

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 by or under the authority of The Quikrete Companies, LLC.