

# SELF-LEVELING FLOOR RESURFACER & FAST-SETTING SELF-LEVELING FLOOR RESURFACER

PRODUCT NOS. 1249-50, -51

**DIVISION 3**

Concrete Topping  
03 53 00

## PRODUCT DESCRIPTION

QUIKRETE® Self-Leveling Floor Resurfacer #1249-50 & Fast-Setting Self-Leveling Floor Resurfacer #1249-51 are self-finishing interior floor toppings and underlayments specially formulated to work without troweling.

## PRODUCT USE

QUIKRETE® Self-Leveling Floor Resurfacer #1249-50 & Fast-Setting Self-Leveling Floor Resurfacer #1249-51 produce a smooth surface ready for the installation of ceramic tile, resilient flooring, carpet or other finishes. QUIKRETE® Fast-Setting Self-Leveling Floor Resurfacer can also be used as a wear surface for light duty industrial floors. Following are typical substrates:

- Precast concrete plank
- New concrete floor slabs with unacceptable finishes
- Existing concrete floors with damaged finishes
- Over wood floor systems, utilizing expanded metal lath reinforcement

## SIZES

- 50 lb (22.7 kg) bags

## YIELD

- At a pourable consistency, a 50 lb (22.7 kg) bag will provide 0.50 cu ft (14 L) of material. At 1/4" (6.4 mm) thick, each 50 lb (22.7 kg) bag will cover approximately 25 ft<sup>2</sup> (2.3 m<sup>2</sup>) of flat surface.

## 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

Typical results obtained with QUIKRETE® Self-Leveling Floor Resurfacer, when tested in accordance with ASTM C109, are shown in Table 1.

Table 1 – Compressive Strength

	Self-Leveling #1249-50	Fast-Setting #1249-51
Curing time		
24 hours	-	1800 psi (12.4 MPa)
7 days	1000 psi (6.9 MPa)	4000 psi (27.6 MPa)
28 days	2000 psi (13.8 MPa)	5500 psi (37.9 MPa)



## INSTALLATION

### SURFACE PREPARATION

- Remove unsound concrete and repair with QUIKRETE® FastSet™ Repair Mortar or other appropriate product. Allow repaired areas to cure before final preparation
- Clean the concrete slab or floor of all dirt, dust, oil, grease, paint and water soluble material
- Seal all perimeter openings to retain leakage. These dams should be able to retain resurfacer material at a height greater than the finished floor elevation
- A final cleaning is required prior to priming. In most cases, shotblasting is the preferred final cleaning method
- Prime the clean dry floor surface with QUIKRETE® Concrete Bonding Adhesive #9902. The concrete bonding adhesive should be diluted with water, 1 part concrete bonding adhesive to 2 parts water, before application to obtain the proper penetration into the subfloor. Dense new and precast concrete requires 1 coat of diluted concrete bonding adhesive. Old, excessively porous concrete receives 2 coats

Note - Diluted concrete bonding adhesive primer should be brushed or sprayed on the subfloor in such a manner as to produce a uniform coating. No pools or puddles should be present when resurfacer is applied. Allow the primer to dry to the touch (about 1 - 2 hours depending upon conditions).

### MIXING

- Mix resurfacer powder into water by mechanical means for 4 minutes at 250 to 500 RPM. Depending upon the amount to be mixed, either a semi-automated mixer or a heavy duty electric drill equipped with a suitable whisk or paddle can be used
- Always add the resurfacer powder to the water. DO NOT ADD WATER TO DRY POWDER. The usual amount of mixing water per bag is 5 qt (4.73 L) for Self-Leveling Floor Resurfacer and 4 1/2 qt (4.26 L) for Fast-Setting Self-Leveling Floor Resurfacer. Higher water contents can cause separation, reduction of strength and shrinkage of

the cured resurfacer. Mix until the dry material is thoroughly blended and free of lumps

- For smaller quantities, a 5 gallon (19 L) bucket with a ½" (13 mm) drill and paddle mixer may be used to mix the material.

#### **APPLICATION**

- Small areas may be placed by pouring from a 5 gal (19 L) bucket or suitable container. Larger areas should be resurfaced with continuous pumping equipment
- Place the resurfacer by pouring directly from the mixing container. Placing should be done as one continuous operation. No screeding or troweling is required. The mixed compound remains fluid for approximately 20 minutes
- Pour material in continuous strips about 1' (305 mm) in width across the narrow section of floor. It levels itself to a smooth surface. Pour the next mixed bag on top of the edge of the previously placed material
- Continue the work without breaks until the area is covered. Self-Leveling Floor Resurfacer can be installed from 5/8" (15.9 mm) thick to a feather edge and Fast-Setting Self-Leveling Floor Resurfacer from 1" (25.4 mm) thick to a feather edge, although a 1/4" (6.4 mm) minimum is required for heavy traffic areas
- For areas deeper than 1" (25.4 mm), apply Self-Leveling Floor Resurfacer in layers no greater than 1" (25.4 mm) each. Prime the floor between layers. Alternately, Fast-Setting Self-Leveling Floor Resurfacer may be extended up to 50% with pea gravel in areas deeper than 1" (25.4 mm)
- Clean all mixing equipment thoroughly with water

#### **PRECAUTIONS**

- Allow 24 - 48 hours before applying finished flooring over Fast-Setting Self-Leveling Floor Resurfacer and 1 - 2 weeks for Self-Leveling Floor Resurfacer

- Areas to receive QUIKRETE® Self-Leveling Floor Resurfacer should be protected from the sun and wind which can cause a rapid moisture loss leading to incomplete hydration and potential cracking
- Protect the leveled floor until resurfacer has developed sufficient strength to withstand foot traffic. Self-Leveling Floor Resurfacer may be walked on within 1 - 2 days. Fast-Setting Self-Leveling Floor Resurfacer may be walked on within 6 hours, depending on conditions, and finished flooring may be applied in 24 hours.
- Test for excessive moisture by taping a square polyethylene sheet tightly against the surface. After several hours, examine the sheet for entrapped moisture. If condensation exists, flooring should not be applied until this test results in a dry surface.
- Shelf Life - The product has an approximate shelf life of 6 months from the manufacture date

#### **WARRANTY**

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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*\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications*

