



SELF-LEVELING FLOOR RESURFACER

PRODUCT NO. 1249-50

DIVISION 3

03-54-16 Cement Underlayment

PRODUCT DESCRIPTION

QUIKRETE® Self-Leveling Floor Resurfacer (No. 1249-50) is a self-finishing underlayment specially formulated to work without troweling.

PRODUCT USE

QUIKRETE® Self-Leveling Floor Resurfacer (No. 1249-50) produces a smooth surface ready for the installation of ceramic tile, resilient flooring, carpet, or other finishes. The following are typical substrates:

- New concrete floor slabs with unacceptable finishes
- Existing concrete floors with damaged finishes
- Over wood floor systems, utilizing expanded metal lath for attachment

SIZES

- 50 lb (22.6 kg) bags

YIELD

- At a pourable consistency, a 50 lb (22.6 kg) bag will provide 0.45 ft³ (12.7 L) of material.
- At a thickness of 1/4 in (6.3 mm), one 50 lb (22.6 kg) bag will cover an area of 21 ft² (1.9 m²).

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle
- ASTM C348 Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars
- ASTM C1708 Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements

PHYSICAL/CHEMICAL

Typical results obtained for QUIKRETE® Self-Leveling Floor Resurfacer (No. 1249-50) when tested in accordance with the referenced ASTM procedures, are shown in Table 1.

INSTALLATION

SURFACE PREPARATION

Large holes should be repaired prior to the application. Repair all holes deeper than 1 inch (25 mm). Also repair holes that are deeper than 1/2 inch (13 mm) with an area greater than 6 in² (38.7 cm²). Make repairs with QUIKRETE Commercial Grade FastSet® Repair Mortar (No. 1241-60, -50, -20) or QUIKRETE Commercial Grade FastSet® Non-Shrink Grout (No. 1585-09, -50, -20) or other appropriate product. Allow repaired areas to cure overnight before final preparation. All surfaces should be clean and free of foreign substances including but not limited



to the following: dirt, dust, oil, grease, and paint. The appropriate personal protective equipment should be worn during surface preparation. A final cleaning is required prior to priming. Acid etching, solvents, and sanding are not acceptable means for preparing the substrate. If installing over wood floors, reinforce to prevent flexing of the floor. Seal all perimeter openings to retain leakage. These dams should be able to retain the QUIKRETE® Self-Leveling Floor Resurfacer at a height greater than the finished surface elevation. Prime the clean, dry floor surface with diluted QUIKRETE® Concrete Bonding Adhesive (No. 9902). The primer should consist of 1 part QUIKRETE® Concrete Bonding Adhesive (No. 9902) blended with 2 parts water to obtain the proper penetration into the subfloor. Old, excessively porous concrete requires 2 coats.

Note – The primer consisting of diluted QUIKRETE® Concrete Bonding Adhesive (No. 9902) 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 QUIKRETE® Self-Leveling Floor Resurfacer is applied. Allow the primer to dry to the touch (about 1 to 2 hours depending upon conditions).

MIXING

Mechanically mix for a minimum of 4 minutes using either a mortar mixer or in a 5 gallon (19 L) bucket using a heavy duty drill with paddle attachment capable of 650 RPM or greater. To ensure proper mixing, always add dry material to water when mixing, and never add water to dry material. Use approximately 5 quarts (4.7 L) of clean potable water per 50 lb (22.6 kg) bag of either product. Adjust water as needed to achieve a self-leveling consistency. Higher water contents can cause separation, reduction of strength and shrinkage of the cured QUIKRETE® Self-Leveling Floor Resurfacer. Mix until the material is thoroughly blended and free of lumps.

APPLICATION

Small areas may be placed by pouring from a 5 gallon (19 L) bucket or another suitable container. Larger areas should be resurfaced with continuous pumping equipment. Place the QUIKRETE® Self-Leveling Floor Resurfacer by pouring directly from the mixing container. Placing should be done as one continuous operation. No screeding or troweling is required. The mixed material will remain fluid for approximately 20 minutes. Pour the material in continuous strips of about 1 foot (30 cm) in width across the narrow section of the application area. The material will level itself to a smooth surface. Pour the next strip adjacent to the edge of the previously placed material. Adjacent strips should be poured within 15 to 20 minutes to ensure a smooth continuous surface. Continue to work without breaks until the entire application area is covered. QUIKRETE® Self-Leveling Floor Resurfacer (No. 1249-50) can be installed from 5/8 inch (16 mm) thick to a feather edge. For areas deeper than 5/8 inch (16 mm), apply QUIKRETE® Self-Leveling Floor Resurfacer (No. 1249-50) in layers no greater than 5/8 inch (16 mm) each Prime the floor between layers with QUIKRETE® Concrete Bonding Adhesive (No. 9902) diluted per package instructions.

CURING

Under hot, dry and windy placement conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. This risk is lower indoors, but high air flow from air conditioning or other factors may cause shrinkage cracking.

PRECAUTIONS

- QUIKRETE® Self-Leveling Floor Resurfacer cannot be used for outdoor service.
- Do not apply if temperatures are below 50 °F (10 °C).
- Areas to receive QUIKRETE® Self-Leveling Floor Resurfacer should be protected from the sun or wind, which can cause a rapid moisture loss leading to incomplete hydration and potential cracking.
- Before laying floor tiles and other materials, 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. Be sure to follow the application instructions of the tile or other finished flooring manufacturer.
- Existing control and expansion joints should be maintained to prevent cracking,

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Flow, ASTM C1708	
5 in to 6 in (125 mm to 150 mm)	
Setting Time, ASTM C191	
≥ 10 hours	
Compressive Strength, ASTM C109 (Modified)	
Age	PSI (MPa)
7 Days	1000 (6.8)
28 Days	2000 (13.7)
Flexural Strength, ASTM C348	
Age	PSI (MPa)
28 Days	600 (4.1)

SAFETY

IMPORTANT: Read Safety Data Sheet carefully before using. **WEAR IMPERVIOUS GLOVES**, such as nitrile, mask, and eye protection.
DANGER: Causes severe 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. © 2024 Quikrete International, Inc.