

# FAST SETTING SELF-LEVELING RESURFACER



**Sakrete® Fast Setting Self-Leveling Resurfacer** is a rapid setting cement-based product for resurfacing concrete floors with damaged finishes or as a wear surface for residential and light foot traffic industrial floors where a hard, flat and smooth surface is desired. Also use as an underlayment for installation of ceramic tile, stone, resilient flooring, carpet, or other finished flooring. Typical substrates include fully cured concrete, APA rated exterior grade/exposure 1 plywood or OSB underlayment grade equivalent with expanded wire lath reinforcement.

## Features:

- Sets in approximately 75-90 minutes
- Provides a hard, flat and smooth surface
- Underlayment or wear surface
- Accepts foot traffic in 6 hours
- Applications form 1/8" to 1" and can be featheredged to adjoining elevations
- 5,500 psi (37.9 MPa) at 28 days

## Use For:

- Indoor and Outdoor applications
- Damaged concrete floors
- APA rated exterior grade/exposure 1 plywood or OSB equivalent with expanded metal lath

## Yield/Coverage/Water:

Bag Size 50 lb. (22.7 kg)

Nominal Thickness	Approximate Coverage	Water
1/8 in. (3 mm) joints	44.0 ft <sup>2</sup> (4.09 m <sup>2</sup> )	4.75 qt. (4.5L)
¼ in. (6 mm) joints	22.0 ft <sup>2</sup> (2.04 m <sup>2</sup> )	
½ in. (12 mm)	11.0 ft <sup>2</sup> (1.02 m <sup>2</sup> )	

NOTE: Yield and water are approximate. The yield above does not allow for waste and spillage.

## Technical Data:

Typical Values	
Flow	120 – 140 mm
Final Set Time	75-90 minutes
Length change	<+/- 0.10%

Flexural Strength ASTM C348	
28 days	1,200 psi (8.3 MPa)

Compressive Strength ASTM C109	
24 hours	1,800 psi (12.4 MPa)
7 days	4,000 psi (27.6 MPa)
28 days	5,500 psi (37.9 MPa)

## DIVISION 3

Concrete Topping – 03 53 00

## Color:

Gray

NOTE: Weather and temperatures, amount of water used as well as care used in the application are all factors over which we have no control. We assume no warranty for finished work, expressed or implied. Our liability is limited to the replacement of defective materials.

## Preparation:

### Concrete:

1. All materials should be stored between 40° F (4° C) and 80° F (27° C) 24 hours prior to installation.
2. Concrete must be fully cured (28 days minimum), free of efflorescence, and not subject to hydrostatic pressure or moisture condensation.
3. All surfaces must be clean, stable, solid, and structurally sound. Remove all unsound concrete, grease, oil, dirt, paint, sealers, curing compounds, waxes, old adhesive residue, gypsum based underlayments, old flooring, and any other foreign materials that will inhibit adhesion. Mechanical removal is recommended, chemicals often serve to drive them deeper into the concrete substrate.
4. Maximum bond over a concrete substrate can be achieved by mechanically profiling the surface either by grinding, shot blasting, sand blasting or scarifying to achieve an ICRI CSP3 to CSP5 standard. Structurally sound concrete that is porous, and has not been troweled smooth and flat may not require mechanical profiling. Typical applications that fall into this category include precast concrete floor panels, or concrete in new construction that is left unfinished in anticipation of receiving self-leveling underlayment.
5. Repair deep areas, holes, and non-moving cracks with Sakrete Top N Bond or an appropriate concrete repair product prior to the application of the self-leveling and allow curing as recommended for the product.
6. All surfaces require priming using a self-leveling bonding primer. Allow primer to dry to the touch.
7. Isolate and install a bond breaker, using ¼" (6 mm) foam tape or caulking, where vertical surfaces meet new toppings and at all perimeters and sharp corners such as column bases, pedestals, supports, etc.

### Wood Substrates:

Residential and light commercial foot traffic, interior applications only

1. Follow Tile Council of North America (TCNA) F185 installation method for cementitious self-leveling underlayments over wood.
2. All wood subfloors must be structurally sound and securely fastened. When using as an underlayment the maximum deflection allowed is L/360 for ceramic tile, or L/720 for stone (including live, dead, impact and concentrated loads).
3. The wood must be either ¾ in. (19 mm) tongue and groove, APA rated exterior grade/exposure 1 plywood or OSB underlayment grade equivalent.
4. The surface must be clean, free from any contaminants that may act as bond breakers such as dirt, paint, wall compound, varnish, grease, oils, or wax. All loose boards must be refastened and sound.
5. Allow a 1/8 in. (3 mm) gap between sheets. Fill gaps and all nail holes or areas where flow could leak with caulk.

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6. Prime clean surface with a self-leveling bonding primer that is designed for wood substrates. Allow primer to dry to the touch.
7. Securely fasten every 4-6 in. (10-15 cm) either galvanized metal lath or plastic lath designed for this purpose to the wood surface after priming, and prior to applying self-leveling cement. Overlap lath edges by ¼ in. (6 mm) and secure using a minimum 3/4 in. (19.0 mm) staple with no gaps, keeping lath flat. Be sure to offset lath joints. To keep the job moving, it is helpful to prime first, then stand on the lath while fastening securely.
8. Install expansion joints where self-leveling cement meets restraining surfaces such as perimeter walls and sharp corners such as column bases, pedestals, supports, etc. using ¼ in. (6 mm) foam tape or caulking.
9. When using Sakrete Fast-Setting Self-Leveling Resurfacer over lath, install no less than 1/4 in. (6 mm) thickness of self-leveling above the surface of the lath.

*Note: Before installing Sakrete Fast Setting Self-Leveling Resurfacer the installer is responsible for ensuring that the wood subfloor is structurally sound, clean and capable of support the weight.*

## Refer To:

ACI 305R Guide to Hot Weather Concreting  
ACI 306R Guide to Cold Weather Concreting

## Mixing:

1. In a clean 5 gal. container, add 4.75 quarts (4.5L) of clean, cool, potable water. Next add the 50 lb. (22.7 kg) bag of powder, while mixing at full speed using a square mortar paddle mixing blade attached to a heavy-duty ½ in. drill (400-600 rpm). Measure water carefully, be accurate, DO NOT ADD EXTRA WATER or segregation and soft surfaces can occur.
2. Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water. Avoid overwatering, over mixing, or moving the mixer up and down during mixing as this will entrap air, lower the strength, and may cause cracking and/or pin-holing. The formation of a white film on the surface is an indication of over watering.
3. For larger jobs, to keep the job moving, it is recommended that multiple mixing containers be used simultaneously. This will allow one mixing container to be poured while the other is being mixed.
4. After use clean all mixing equipment thoroughly to avoid hardened product in subsequent batches.
5. Fast Setting Self-Leveling Resurfacer may be extended up to 50% with clean pea gravel (3/8 in.) for areas deeper than 1 inch (25 mm). For best results, apply a final ¼ in. to 1 in. (6-25 mm) topping layer without extension. A self-leveling primer must be used when layering.

## Placement:

1. Apply only to surfaces that are frost free and between 50° – 90° F (10° – 32° C) for 24 hours prior and 48 hours after application.
2. Close all interior windows, doors, and HVAC vents to minimize air flow. Protect exterior application areas from excessive drying due to temperatures, air movement, direct sunlight and rainfall.
3. Divide the areas to permit continuous placement without cold joints.
4. Pour the blended Sakrete Fast Setting Self-Leveling Resurfacer directly from the mixing container across the surface in a continuous, uniform manner to achieve a flat, level surface. No troweling is required. The mixed compound remains fluid for approximately 15-20 minutes.
5. To prevent ridges work a narrow dimension, best results are obtained pouring across the shorter distance in the room in continuous strips about 1 foot (31 cm) wide. Optimum results can be obtained by providing a continuous wet flow throughout the placement, always pouring into a wet edge.

6. Troweling is not recommended, do not overwork material once it is on the floor.
7. Honor all existing expansion joints, control joints, and moving cracks through the resurfacer application. Failure to do so could result in delamination or cracking.
8. Sakrete Fast Setting Self-Leveling Resurfacer has a working time of 25 to 30 minutes at 70° F (21° C). Temperature and humidity will affect flow, working time, and set time.
9. If a higher build-up is needed over the first pour, allow 24 hours drying time between pours and prime surface again with a self-leveling bonding primer.
10. Sakrete Fast Setting Self-Leveling Resurfacer will not correct or compensate for a structurally defective substrate. Faults in the substrate will appear in the resurfacer. The use of alkali resistant glass fabric or galvanized metal reinforcing (Federal Specification QQL.101C) can be helpful in reducing reflective cracking.
11. Typically surfaces will accept foot traffic in 6 hours, non-moisture sensitive tile and stone in 24-48 hours, and resilient flooring after 3 days at temperatures of 72° F (22° C).
12. Before laying floor tiles and other flooring materials test for MVER (moisture vapor emission rate, reference ASTM F1869) and concrete substrate's relative humidity (RH, reference ASTM F2170). The requirements of the floor covering and floor adhesive manufacturers must be followed with respect to, but not limited to, levels of moisture.

## Notes and Limitations:

1. Sakrete Fast Setting Self-Leveling Resurfacer may be used for outdoor applications, the smooth surface may prove too slippery when wet. To provide better traction, a light broom finish may be applied when material has reached initial set. Most outdoor applications require the surface to slope for drainage, however Fast Setting Self-Leveling Resurfacer flows easily to provide a level surface and will not provide that slope.
2. Do not install over trowel or over work.
3. Metal or plastic lath design for this purpose is required when going over wood subfloors (interior applications only), it is not needed over properly prepared concrete surfaces.
4. When using lath, install no less than ¼ in. (6 mm) thickness of self-leveling about the lath surface.
5. Do not install over dimensionally unstable substrates such as gypsum, gypsum based patching compounds, particle board, luan, asbestos, or chip board.
6. Do not install over old tacky or pressure sensitive adhesive residue, paints, sealers, curing compounds, old flooring, and other foreign materials.
7. Do not allow heavy or sharp metal objects to be dragged directly across the fresh surface. Protect new surface from use until material is completely hard and set.
8. Protect from excessive drying due to change in temperatures, air movement, and direct sunlight.
9. The use of damp curing or the use of curing compounds is not recommended.
10. Allow 14 days curing time before turning on in-floor radiant heating systems, bring heat up slowly during the first usage.
11. Rubber gloves and goggles are recommended safety equipment.
12. Store in tightly sealed original factory container.
13. Air, mix and substrate temperatures should be between 40° F (4° C) and 80° F (27° C) and no rain in the forecast within 24 hours of application.
14. Protect from freezing for 48 hours.

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## **Clean Up:**

Use warm, soapy water for cleaning hands and tools while product is wet. Sakrete concrete mortar dissolver can be used if dried or hardened on tools and equipment.

*NOTE: Proper application and installation of all Sakrete products are the responsibility of the end user.*

## **Safety:**

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product. WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA).

**KEEP OUT OF REACH OF CHILDREN.**

## **Limited Product Warranty:**

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the date the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.