



Self-Leveling Underlayment

Flowable mortar for producing a flat and level floor

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PRODUCT DESCRIPTION

SAKRETE® Self-Leveling Underlayment is a polymer modified Portland cement based self-leveling underlayment for interior applications. For use over concrete and plywood floors. Can be used under carpeting, vinyl sheet goods, ceramic tile, wood flooring, Vinyl Composition Tile, stone, and other materials. This flowable mortar is an underlayment and is not designed as a direct wearing surface. May also be used to encapsulate radiant heating installations.

WHEN/WHERE TO USE

- Used to prepare plywood or concrete surfaces prior to installation of flooring
- Interior applications from 1/8 in. (3 mm) up to 1 in. (25 mm) thick
- To level, smooth, and repair interior floors before installation of floor coverings
- Encapsulate radiant heat installations

ADVANTAGES

- High strength
- Self-leveling and flowable mixture
- Provides flat and level floors

PACKAGING

50 lb. (22.7 kg) pail (BOM 120035)

TYPICAL YIELD

One 50 lb. pail covers:

- 50-60 sq. ft. (4.6-5.8 m²) at 1/8 in. (3 mm) thickness
- 25-30 sq. ft. (2.3-2.8m²) at 1/4 in. (6 mm) thickness
- 12-15 sq. ft. (1.1-1.4m²) at 1/2 in. (12 mm) thickness

Helpful Items:



Safety Glasses



Broom



Hand Mixer



Squeegee



Gloves



Pail



Brush

TECHNICAL DATA

Technical Data Test Results	
Flow time @ 70°F	10 minutes
Foot traffic	2-4 hours
Install ceramic tile	24 hours or overnight
Install resilient floor covering	72 hours

SURFACE PREPARATION

Floors must be solid, structurally sound, and free from excessive movement. Floor must be free of all dirt, oil, grease, paints, sealers, wax, curing compounds, or any other substance that would interfere with bonding.

Concrete Surfaces: Floors must be fully cured, free of moisture, free of curing compounds, and have a surface profile rougher than light broom finish with a concrete surface profile (CSP) texture between CSP 4-6 as referenced in the International Concrete Repair Institute (ICRI) Technical Guideline No 310-2. Some concrete surfaces may require mechanical profiling by shotblasting or scarifying. Deep holes should be filled prior to application using SAKRETE Fast Set Cement Patcher. Allow to cure for several hours before applying Self-Leveling Underlayment. Do not bridge over existing expansion joints.

Plywood Surfaces: Plywood surfaces must be at least 3/4 in. (19 mm) exterior grade or exposure 1 underlayment grade fastened securely with a maximum deflection of L/360 for ceramic tile or L/720 for stone (including live, dead, impact, and concentrated loads). Allow a 1/8 in. gap between sheets and fill with caulk, mortar or tape. All nail holes or areas where underlayment could leak should be filled with mortar or caulk. Securely fasten every 4 in. (10 cm) either galvanized metal lath or plastic lath designed for this purpose to the plywood surface prior to applying underlayment cement. Do not use on wooden floors that are subject to moisture. Install expansion joints where underlayment cement meets retraining surfaces such

as perimeter walls or dissimilar floors. Pour should cover lath by a minimum depth of 1/4 in. (6.3 mm).

PRIMING

No primer is needed with Self-Leveling Underlayment.

MIXING

Mix a 50 lb. pail of underlayment cement with measured 4 1/2 qt. (4.275 L) of cool, clean water. Accurately measuring the water is important, do not splash water out while mixing. Add powder to the pre-measured water and mix with a 400-600 RPM power mixer until a lump-free mixture is obtained. A 5 gal. (18.9 L) pail is recommended for mixing. Do not add additional water to the product as this will adversely affect the performance of the product. Acclimating water and powder to room temperatures of 65°-75°F (18°-24°C) 24 hours before use is recommended. At 70°F (21°C), the product has about a 10 minute flow/heel time. Always pour fresh material into existing material within this time frame.

APPLICATION

Read all directions before starting work. If an installation is to be done prior to the building being enclosed, the Self-Leveling Underlayment must be protected from direct sunlight, wind, moisture, and temperature variations over 20°F during the first 24 hours of curing, and must be applied with temperatures are above 55°F (13°C) and remain above 40°F within 24 hours of placement.

Divide the area into sections to permit continuous pours without cold joints. Pour material in a continuous stripe about 1 ft. (30.5 cm) in width across the narrow section of the floor. Pour the next pail adjacent to the first pour. Continue successive pours in this manner until floor is covered. Do not trowel. A gauge rake should be used to insure proper and

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN



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even thickness of the Self-Leveling Underlayment. Material can be poured up to 1 in. thickness. The material does not self-level as water would. It flows well but must be raked or pulled over the floor at the required depth as needed. Do not overwork. When pouring into itself it should be raked and smoothed to ensure a flat surface leveling. Restrict underlayment from moving to unwanted areas by creating small dams constructed of 1"x2" lumber wrapping their edges with duct tape. Protect new surface from use until completely hard and set.

CURING

Protect from rapid excessive drying due to temperature and air movements. Do not use a curing compound.

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.

NOTES AND LIMITATIONS

- Gloves and goggles are recommended safety equipment
- Use only clean mixing container and tools
- Store in tightly closed container off the floor in a dry place
- Protect new surface from use until material is completely hard and set.
- At temperatures of 72°F (22°C) or above:
 - Surfaces will accept foot traffic in 2-4 hours
 - Installation of ceramic tile after 24 hours or overnight
 - Installation of resilient flooring after 72 hours
- This product may not be used over gypsum surfaces, particle board, paints, adhesive residues, vinyl, plastics, and epoxy or urethane floors.
- This product is not to be used as a final wear surface.

Proper application and installation of all SAKRETE products are the responsibility of the end user.

WARNING

WARNING! CAUSES IRRITATION - Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Exposure may result in irritation of the skin, eyes or nasal passages from alkali in Portland cement. When wet, contact with the skin or eyes may result in irritation or burns. **FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get prompt medical attention; for skin, wash thoroughly with plenty of soap and water. If irritation persists, get medical attention. **WARNING! HARMFUL IF INHALED** - Avoid breathing dust. Keep container closed. Use with adequate ventilation. Excessive exposure by inhalation over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline Silica has been classified by IARC and NTP as a carcinogen. **WARNING:** Wear protective clothing and equipment. **KEEP OUT OF REACH OF CHILDREN.** READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product.

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 dates 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 of defective products or, at the manufacturer's option, refund of the purchase price. **CONSEQUENTIAL AND**

INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

ENVIRONMENTAL ADVISORY

Uncured or crushed cured cement is an environmental hazard, which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.

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Shelf Life	One year in original, unopened container.
Storage Conditions	Store dry in tightly sealed container.
Color	Gray