



SL-100™

SELF-LEVELING UNDERLAYMENT

TECHNICAL DATA SHEET 04/29/2025

KEY FEATURES

- Install from 1/4" to 3" neat
- Walkable in 2 to 3 hours
- Install floor covering in 2 to 3 days

DESCRIPTION

SL-100™ is a cement-based, self-leveling underlayment that can be used to create a smooth, flat or level surface prior to the installation of floor coverings. Its extended working time, low shrinkage and superior leveling properties make it the ideal product for renovation and new construction projects where next day flooring installations are not critical.

PRODUCT FEATURES

- Ideal for barrel mixing or pumping applications
- Can be left open to normal construction traffic for up to 12 months
- Can be installed from 1/4" - 3" neat and to 5" properly extended
- Maintains healing and pour merging properties for up to 25 minutes
- Fast return to service; walkable in just 2-3 hours
- Compatible with all adhesives approved for concrete
- Can be feather-edged to meet existing elevations in doorways
- Contributes points to LEED® Certified Projects

DIRECTIONS FOR USE

Read and understand technical and safety data sheets completely before beginning installation. Refer to www.bostik.com/us for the most recent product information and safety data sheet prior to installation.

PRIOR TO FULL INSTALLATION, APPLY TO A TEST AREA TO BECOME FAMILIAR WITH APPLICATION AND TO ENSURE PRODUCT SATISFACTION.



SURFACE PREPARATION

GENERAL NOTE: SL-100™ is not a vapor barrier. Test substrate as per ASTM F-1869 for (MVER) and/or ASTM F-2170 for (RH%). If levels exceed those permissible by any component in the flooring system, apply a Bostik moisture mitigation product (i.e. Bostik Slab-Cote or Roll-Cote).

All surfaces must be clean, sound, dry, 50°F - 90°F (10°C-32°C) and free of oil, gypsum compounds, wax, grease, sealers and/or curing compounds, urethane, paint, asphalt, loose surface material or any contaminate that will act as a bond breaker. Never use acid or mastic removers on any surface to which a Bostik product will be applied. Substrate must have a minimum direct tensile bond test reading of 74 psi per (ASTM C-1583-04). If sealers and/or curing compounds are present they must be removed by mechanical means prior to application.

For high traffic, heavy rolling loads and maximum depth of fill conditions, an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #3 to #4 is required beneath the selected primer.

This supersedes and replaces in its entirety all previously published versions of this document. B286550

CONCRETE (TEXTURED, OPEN AND POROUS):

Preparation: Weak or contaminated surfaces must be cleaned down to solid, sound concrete by mechanical means such as shot-blasting, grinding or scarifying.

Priming: Apply one coat of Universal Primer™ Pro diluted 50/50 (1 part water: 1 part Universal Primer™ Pro) using a split tip broom. Pour out or spray liberally and work into surface, leave no puddles or bare spots. Apply SL-100™ once Universal Primer™ Pro is dry (minimum 1 hour) and up to 24 hours. If Primer has dried longer than 24 hours a second coat of Universal Primer™ Pro will be required.

Thickness: 1/8" over the highest point. 1/4" up to 3" neat, 5" extended.

NON-POROUS (BURNISHED CONCRETE, TERRAZZO, CERAMIC AND QUARRY TILE):

Preparation: Mechanically abrade substrate to a dull finish with the use of shot-blasting, grinding or scarifying, vacuum or mop to remove dust.

Priming: Apply one thin coat of Universal Primer™ Pro (undiluted) using a 3/8" nap roller. Apply SL-100™ once Universal Primer™ Pro is dry (minimum 2 hours) and up to 24 hours. If Universal Primer™ Pro has dried longer than 24 hours a second coat of Universal Primer™ Pro will be required. If the use of a gritted primer is required, an application of Bostik TOTALPrime may be needed.

Thickness: 1/8" over the highest point. 1/4" up to 3" neat, 5" extended.

EPOXY MOISTURE VAPOR COATING (Bostik's Slab-Cote™)

Preparation: Sweep, vacuum, and wet mop to remove dust. DO NOT sand or abrade epoxy coating as this can compromise the performance of the coating.

Priming: Apply one thin coat of Universal Primer™ Pro (undiluted) using a 3/8" nap roller. Apply SL-100™ once Universal Primer™ Pro is dry (minimum 2 hours) and up to 24 hours. If Universal Primer™ Pro has dried longer than 24 hours a second coat of Universal Primer™ Pro may be required. If the use of a gritted primer is required, an application of Bostik TOTALPrime may be needed.

Thickness: 1/4" to 3" neat, 5" extended.

WOOD (REQUIRES LATH)

NOTE: Wood must be a minimum 3/4", untreated, APA Rated, Type-1, exterior grade plywood. The subfloor must be engineer approved free of deflection (maximum L/360), considering both live and dead loads. Use an approved Bostik anti-fracture membrane over SL-100™ where ceramic tile or stone are being installed.

Preparation: Prepare by sanding down to clean bare wood. Secure wood subfloor with deck screws and fill open seams with UltraFinish™ Pro, Webcrete® 98 or Webcrete® 95. Replace any weak or water damaged wood.

Priming: Apply one thin coat of Universal Primer™ Pro (undiluted) using a 3/8" nap roller. Apply lath and SL-100™ once Universal Primer™ Pro is dry (minimum 2 hours) and up to 24 hours. If Universal Primer™ Pro has dried longer than 24 hours a second coat of Universal Primer™ Pro will be required.

Thickness: 1/4" to 1". For deeper pours, engineer approvals are required.

MIXING

Mix 2-bag batches of SL-100™. For each bag add a maximum 5.5 quarts of clean, cold water into a mixing barrel. Then, add bags of SL-100™ while mixing at full speed with a mixing paddle attached to a heavy duty 1/2" drill (min. 650 rpm). Mix for 2 minutes. Add no additional water and keep the mixing paddle immersed in the material to avoid entraining excess air.

INSTALLATION

Barrel Mixing: Pour the blended SL-100™ on the floor immediately and disperse with a gauge rake followed by finishing with a smoother. SL-100™ will maintain its workability and healing for up to 25 minutes.

TYPICAL PHYSICAL PROPERTIES

Water Requirements	5.5 quarts per 50 lb. bag
Approximate Coverage	1/4" covers 25 ft² 1/2" covers 12.5 ft²
Flow Cup (After 10 minutes)	13.5 cm
Installation Thickness	1/4"- 3" neat 5" extended with 3/8"-3/4" clean, dry, graded blue stone, granite, or pea gravel aggregate
Install Floor Coverings [70°F (21°C) @ 50% RH]	Ceramic, Quarry and Porcelain Tile: 12 Hours at < 3/8" (8.3 mm) Common floor coverings: 24 Hours at < 3/8" (8.3 mm) Deeper pours will require longer cure times
Installed Weight (per ft²)	2.1 lbs. @ 1/4" (5mm)
Application Temperature Range	50°F-90°F (10°C-32°C)
Set: ASTM C-191 [70°F (21°C) / 50%RH]	Flow time: 25 minutes Final Set: 90 minutes

STRENGTH RATINGS

Compressive Strength (ASTM C-109)	4 hours: 1,000 psi, 6.9 MPa 1 day: 3,000 psi, 20.7 MPa 28 days: 5,000 psi, 35.0 MPa
Flexural Strength (ASTM C348)	28 days: >1,000 psi, 6.9 MPa

REQUIRED APPLICATION TOOLS

- Mixing barrel or pump
- Mixing paddle
- Gauge rake
- Smoothing tool
- Measuring pail
- Split-tip broom / 3/8" nap roller
- 1/2" drill (minimum 650 rpm)

Note: Depth of lift, cooler temperatures, higher humidity and inadequate ventilation can extend drying times.

PUMPING

Deep placements and large projects are more efficiently installed with the use of a pump. Contact Bostik for instructions, recommended pumping procedures and approved equipment.

NOTE: During application and for first 24 hours prevent excessive air movement but maintain adequate ventilation and protect material from direct sunlight. These variables can cause uneven curing patterns, false set, and cracking.

GENERAL GUIDELINES**SECONDARY LIFTS:**

- All substrates must be properly prepared per the product technical data sheets
- Expansion foam/rolls must be placed at all vertical surfaces and perimeters
- Only two self-leveling underlayment lifts/layers are permitted
- First lift/layer must be 3-days cured before the application of a second lift

- Priming between lifts is required with the dilution ratio of 2:1 (water to AS-100)
- Second lift/layer must not exceed 30% thickness of the first lift/layer

EXTENSIONS:

3/8" OR 3/4" CLEAN, DRY AND GRADED BLUESTONE, GRANITE OR PEA GRAVEL

Mixing: Mix SL-100™ as normal and then add the aggregate up to 1 part by volume or up to 30% by weight. Do not use sand or limestone. A paddle type mixer can be used to make larger applications more efficient. Mix until the aggregate is completely coated. If the aggregate is wet, you may have to reduce the amount of mix water accordingly to avoid over watering. Place the extended material immediately.

CLEAN UP

Clean tools with water immediately after use or by mechanical means once dry.

LIMITATIONS

- It is the responsibility of the contractor to review the complete technical datasheets of Bostik products referenced above as more detailed information may be required. The information provided above acts only as a general guideline and may vary based on jobsite conditions.
- It is the responsibility of the contractor to determine the suitability of this product for the desired application.
- Expansion or isolation joints and working cracks must be reflected through SL-100™.
- No wet curing methods or sealers and/or curing compounds should be used.
- On new concrete always test for sealers and/or curing compounds which inhibit bond. If sealers and/or curing compounds are present they must be removed by mechanical means prior to applying SL-100™.
- Do not use over materials containing asbestos.
- Depth of lift, cooler temperatures, inadequate ventilation and higher humidity can extend drying times.
- SL-100™ is for interior use only.

STORAGE/SHELF LIFE

Store in cool, dry area (70° F / 21° C) off the ground on a pallet. Tightly seal package and do not expose to sun. Shelf life is 18 months from date of manufacturing in unopened bags.

PACKAGING

50 lb. bags: 48 per pallet

2,200 lb. super sacks: 1 per pallet

COLOR

Dark Gray

VOC

0 g/L (as calculated per SCAQMD 1168)

ELIGIBLE LEED CREDITS

1 total points:

Low Emitting Materials (EQ 4.1), 1 Point

FLASH POINT

200°F (>93°C)

WARNING

POISON. HARMFUL IF SWALLOWED. CORROSIVE. CAUSES BURNS. MAY PRODUCE ALLERGIC REACTION BY SKIN CONTACT. CANCER AGENT! EXPOSURE MAY PRODUCE CANCER. CONTENTS HARMFUL. CAUSES BURNS. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Keep out of reach of children. Handle with care. Wear a mask, rubber gloves, safety glasses.

KEEP OUT OF REACH OF CHILDREN

FIRST AID TREATMENT

Contains quartz, Portland cement and vinyl acetate. If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse well with water for 20 minutes. If on skin, rinse well with water. If on clothes, remove clothes.

SEE SAFETY DATA SHEET

Chemical Emergency: 800-424-9300 (USA), 703-527-3887 (International)

Medical Emergency: 866-767-5089

COVERAGE CHART (UNITS REPRESENT QUANTITY OF 50 LB BAGS)

Square Footage	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/2"	2"
100 ft ²	4	6	8	10	12	14	16	24	32
500 ft ²	20	30	40	50	60	70	80	120	160
1,000 ft ²	40	60	80	100	120	140	160	240	320
2,000 ft ²	80	120	160	200	240	280	320	480	640
3,000 ft ²	120	180	240	300	360	420	480	720	960
4,000 ft ²	160	240	320	400	480	560	640	960	1280
5,000 ft ²	200	300	400	500	600	700	800	1200	1600
10,000 ft ²	400	600	800	1000	1200	1400	1600	2400	3200

(Coverages may vary depending on substrate conditions.)

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