



# SL-100™

## SELF-LEVELING UNDERLAYMENT

### 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
- Mold and mildew resistant
- 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 installed over "Green Concrete"
- Can be feather-edged to meet existing elevations
- Contributes points to LEED® Certified Projects
- 21% recycled content

### DIRECTIONS FOR USE

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

### 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 vapor barrier coating (i.e. Bostik Slab-Cote™ or D-250™).



### TYPICAL PHYSICAL PROPERTIES

Water Requirements	5.5 quarts per 50 lb. bag
Approximate Coverage	1/4" covers 25 ft <sup>2</sup> 1/2" covers 12.5 ft <sup>2</sup>
Installation Thickness	1/4" - 3" neat 5" extended with 3/8"-3/4" clean, dry, graded blue stone, granite, or pea gravel aggregate
Installed Weight (per ft <sup>2</sup> )	2.1 lbs. @ 1/4" (5mm)
Flow cup (After 10 minutes)	13.5 cm
Application Temperature Range	50°F - 95°F (10°C - 35°C)
Set: ASTM C-191 [70°F (21°C) / 50%RH]	Flow time: 25 minutes Final Set: 90 minutes
Install Floor Coverings [70°F (21°C) / 50%RH]	Ceramic, Quarry and Porcelain Tile: 24 hours at 1/4" Hardwood flooring: 48 hours at 1/4" Common Resilient floor coverings: 48 hours at 1/4"

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

All surfaces must be clean, sound, dry, 50° F (10° 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.

**CONCRETE (TEXTURED, OPEN & POROUS)**

Preparation: Weak or contaminated surfaces must be cleaned down to solid, sound concrete by mechanical means such as chipping, 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 a 60 grit or larger sandpaper, shot-blasting or grinding, 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 will be required.

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

**EPOXY MOISTURE VAPOR COATING (Bostik's Slab-Cote™ or D-250™)**

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.

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

**WOOD (REQUIRES BOSTIMAT™ INSTALLATION)**

NOTE: Wood must be a minimum 3/4", untreated, APA Rated, Type-1, exterior grade plywood. The subfloor must be free of deflection (maximum L/360), considering both live and dead loads. Use an approved 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 BostiMat™ 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 3" and up to 1" per layer of BostiMat™.

**ADHESIVE RESIDUE (THIN, TRANSLUCENT, NON-WATER SOLUBLE, FREE OF TACK AND WELL BONDED)**

**STRENGTH RATINGS**

Compressive Strength (ASTM C-109)	4 hours: 1,000 psi, 6.9 MPa 1 day: 4,000 psi, 31.0 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)

Preparation: SL-100™ can be installed over thin (translucent) sound, non-water soluble adhesive residues that are free of tack and well bonded to the substrate. The adhesive cutback needs to be prepared using the wet scrape method as outlined in the Resilient Floor Covering Institute booklet "Recommended Work Practices for the Removal of Resilient Floor Coverings". Remove all patching materials below the adhesive and avoid applications where heat or excessive moisture will soften or degrade the adhesive.

NOTE: If unsure of the suitability, deflection or heavy loads are expected, use application listed below for very distressed subfloors.

Priming: Apply one thin coat of Universal Primer™ Pro (undiluted) using a 3/8" nap roller. Apply BostiMat™ 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: 1/8" over the highest point. 1/4" up to 3" neat, 5" extended.

**VERY DISTRESSED SUBFLOORS (REQUIRES BOSTIMAT™ INSTALLATION); MUD BEDS, LIGHTWEIGHT CON-CRETE, OVER WATERED CONCRETE**

Preparation: Remove all loose debris from subfloor. Sweep and vacuum substrate thoroughly.

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 and work into surface, leave no puddles or bare spots. Ensure BostiMat™ and Universal Primer™ Pro are dry (minimum 2 hours 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.

**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 or until lump free. 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.

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

(Coverages may vary depending on substrate conditions.)

### 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, a false set, and cracking.

### GENERAL GUIDELINE

#### FOR INSTALLING BostiMat™ WITH SL-100™:

NOTE: Review the complete BostiMat™ technical datasheets as more detailed information may be required. The information below acts only as a general guideline and may vary based on jobsite conditions. After Uni-versal Primer™ Pro is dry to the touch, simply roll out BostiMat™ over the properly prepared and primed surface. Overlap all seams a minimum of 1" and cut to fit using scissors. A single layer of BostiMat™ can be used to reinforce Bostik self leveling applications up to 1" thick. Place an additional layer of BostiMat™ for thicknesses up to 2". Mat installation does not need to be "Wrinkle Free" as the product breaks down into individual fibers after the self-leveling is placed.

Place a minimum of 1/4" of underlayment over BostiMat™. Once the mat is covered, gauge rake and work the underlayment in a crosshatch pattern. A porcupine or agitating roller may be required to properly disburse the fibers. Finish surface with a smoothing tool.

When barrel mixing, do not drag the barrels over the BostiMat™. Bostik recommends the use of a hand truck, dolly or cart to transport material. A lane of Masonite can also be laid from the mixing station to the placement area.

NOTE: BostiMat™ fibers should be visible on the surface of the cement after placement. Pouring or pumping the self-leveling back into already placed material will help in disbursing the fibers.

#### EXTENSION

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. Do not use sand or lime-stone. 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.

### 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.
- 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.
- It is the responsibility of the contractor to determine the suitability of this product for the desired application.
- SL-100™ is for interior use only.

### CLEAN UP

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

### PACKAGING

50 lb. bags: 48 per pallet

2,200 lb. super sacks: 1 per pallet

### COLOR

Gray

### ELIGIBLE LEED CREDITS

3 total points:

Recycled Content (MR 4.1 & 4.2), 2 points

Low Emitting Materials (EQ 4.1), 1 Point

### DANGER

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.

### 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.**

### STORAGE AND 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 12 months from date of manufacturing in unopened bags.

### VOC

0 g/L (as calculated per SCAQMD 1168)

### FLASH POINT

>200°F (>93°C).

### LIMITED WARRANTY

Limited Warranty found at [www.bostik-us.com](http://www.bostik-us.com) or call 800.726.7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. BOSTIK DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE TO CERTAIN CLASSES OF BUYERS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

BOSTIK HOTLINE

**Smart help**  
**1-800-726-7845**

**Bostik, Inc.**  
11320 W. Watertown Plank Road  
Wauwatosa, WI 53226  
[www.bostik.com/us](http://www.bostik.com/us)

