



# SL-Rapid™

## RAPID SETTING SELF-LEVELING UNDERLAYMENT

### KEY FEATURES

- Install floor covering in 1 to 4 hours
- Install thickness from 1/8" to 1" neat
- Up to 40% more fluid than traditional self-levelers

### DESCRIPTION

Bostik SL-Rapid™ is a rapid-setting, cement-based, self-leveling underlayment that can be used to create a smooth, flat and level surface prior to the installation of floor coverings. Its rapid-setting properties, low shrinkage and superior leveling properties make it the ideal product for time sensitive and demanding applications on, above, or below grade.

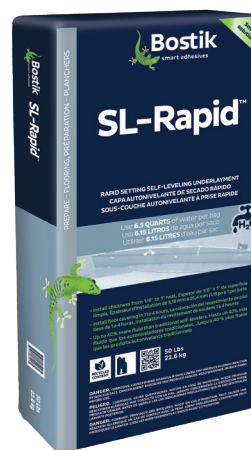
The SL-Rapid's™ setting properties mean tile can be installed as quickly as one hour after walkable. Additionally, moisture sensitive floor coverings such as wood, carpet, VCT, vinyl sheet goods, and rubber can generally be installed four hours after walkable.

### PRODUCT FEATURES

- Fast install for ceramic tile – 1 hour
- Can be installed from 1/8" – 1" neat
- Ideal for bucket or barrel mixing applications
- Creates a super smooth surface necessary for various floor coverings
- Maintains healing and pour merging properties for up to 20 minutes
- Very fast and easy to apply without the imperfections associated with hand patching
- Highly fluid self-leveler for easy smoothing and pouring
- Mold and mildew resistant
- Contributes points to LEED® Certified Projects
- High performance, calcium aluminate formulation

### 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.



### TYPICAL PHYSICAL PROPERTIES

Water Requirements	6.5 quarts per 50 lb. bag
Approximate Coverage	1/8" covers 60 ft <sup>2</sup> 1/4" covers 30 ft <sup>2</sup>
Flow Cup (After 10 minutes)	15.5 cm
Installation Thickness	1/8"-1" neat
Installed Weight (per ft <sup>2</sup> )	2.0 lbs. @ 1/4"
Application Temperature Range	50°F-95°F (10°C-35°C)
Set: ASTM C-191 [70°F (21°C) / 50%RH]	Flow time: 20 minutes* Final set: 40 minutes
Install Floor Coverings [70°F (21°C) / 50%RH]	Tile: 1 hour Moisture Sensitive Coverings and Adhesives: 4 Hours Epoxy Coatings: 24 hours

### STRENGTH RATINGS

Compressive Strength (ASTM C-109)	4 hours: 2,000 psi, 13.8 MPa 1 day: 4,000 psi, 31.0 MPa 28 days: 5,500 psi, 37.9 MPa
Flexural Strength (ASTM C348)	28 days: >1,200 psi, 8.3 MPa

### REQUIRED APPLICATION TOOLS

#### Standard Leveling:

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

#### For 1/8" Applications:

- Gauge rake
- Rubber smoothing tool

\* Higher air and water temperatures will reduce flow time

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

## SURFACE PREPARATION

**GENERAL NOTE:** SL-Rapid™ is not a vapor barrier. Moisture testing should be completed using test methods ASTM F-1869 for (MVER) and 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™). All surfaces must be clean, sound, dry, 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.

**GENERAL NOTE:** Substrate temperature range must be 50°F – 95°F (10°C – 35°C)

**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-Rapid™ 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" up to 1" neat.

**NON-POROUS (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-Rapid™ 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" up to 1" neat.

**EPOXY MOISTURE VAPOR COATING (Bostik's Slab-Cote™ and 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-Rapid™ once Universal Primer™ Pro is dry (minimum of 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:** 1/8" up to 1" neat.

**WOOD (REQUIRES BOSTIMAT™ OR LATHE 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-Rapid™ where 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-Rapid™ 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" up to 1" neat.

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

**Preparation:** SL-Rapid™ 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 SL-Rapid™ 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" up to 1" neat.

**VERY DISTRESSED SUBFLOORS (REQUIRES BOSTIMAT™ INSTALLATION) (MUD BEDS, LIGHTWEIGHT CONCRETE, OVERWATERED 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. Apply BostiMat™ and SL-Rapid™ once Universal Primer™ Pro is dry (minimum 2 hours and up to 24 hours). If primer has dried longer than 24 hours a second coat of Universal Primer™ Pro may be required.

**Thickness:** 1/8" up to 1" neat.

## MIXING

Mix 2-bag batches of SL-Rapid™. For each bag add a maximum 6.5 quarts of clean cold water into a mixing drum. Then, add bags of SL-Rapid™ 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-Rapid™ on the floor immediately and disperse with a gauge rake followed by finishing with a smoothing tool. SL-Rapid™ will maintain its workability and healing for about 20 minutes.

**NOTE:** During application and for the 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, or cracking.

## COVERAGE CHART (Units represent quantity of 50lb bags)

Square Footage	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
100 ft <sup>2</sup>	2	4	5	7	9	10	12	14
500 ft <sup>2</sup>	9	17	25	34	42	50	59	67
1,000 ft <sup>2</sup>	17	34	50	67	84	100	117	134
2,000 ft <sup>2</sup>	34	67	100	134	167	200	234	267
3,000 ft <sup>2</sup>	50	100	150	200	250	300	350	400
4,000 ft <sup>2</sup>	67	134	200	267	334	400	467	534
5,000 ft <sup>2</sup>	84	167	250	334	417	500	584	667
10,000 ft <sup>2</sup>	167	334	500	667	834	1000	1167	1334

(Coverages may vary depending on substrate conditions.)

### GENERAL GUIDELINE

#### FOR INSTALLING BostiMat™ WITH SL-Rapid™

**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 Universal 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. 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 dispersing the fibers.

### LIMITATIONS

- It is the responsibility of the contractor to review the complete technical data sheets 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-Rapid™.
- SL-Rapid™ is self-curing. No wet curing methods or sealers should be used.
- On new concrete always test for sealers and/or curing compounds which could inhibit bonding. If sealers and/or curing compounds are present they must be removed by mechanical means prior to applying the primer or SL-Rapid™.
- Do not use over materials containing asbestos.
- 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.
- For thicknesses 1/8" or less – variations may telegraph, apply enough material to achieve a smooth finish.

- Always refer to the technical data sheet of any other Bostik product referenced for its full instructions and limitations.
- SL-Rapid™ is approved 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

### COLOR

Gray

### ELIGIBLE LEED® CREDITS

5 total points:

Recycled Content (MR 4.1 & 4.2), 2 Points  
Regional Materials (MR 5.1 & 5.2), 2 Points  
Low Emitting Materials (EQ 4.1), 1 Point

### DANGER

CORROSIVE. CAUSES BURNS. HARMFUL IF SWALLOWED. MAY PRODUCE ALLERGIC REACTION BY SKIN CONTACT. CANCER AGENT! EXPOSURE MAY PRODUCE CANCER. 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 polymer. If swallowed, call a Poison Control Center 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

### 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 (>93.3°C)

### LIMITED WARRANTY

Limited Warranty found at [www.bostik.com/us](http://www.bostik.com/us) 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

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