



KOSTER SL

A cement based self-leveling underlayment

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Features:

KOSTER SL is a high quality, fast setting underlayment that has extremely low shrinkage and provides a smooth, level surface ready to receive flooring systems. It may be applied onto a variety of substrates such as KOSTER VAP I® 2000 moisture control coatings, concrete, etc.

KOSTER SL accepts all major floor coverings and is compatible with most adhesives. It is resistant to abrasion and wear.

Use:

KOSTER SL is designed for leveling unevenness of plain concrete surfaces as well as surfaces covered with KOSTER VAP I® 2000 moisture control coatings. It is intended for interior use.

Benefits:

- Fast cure, rapid strength gain, self leveling
- Tenacious bond to substrate
- May be pumped or poured
- Compatible with most adhesives
- Easy to use and cost effective
- Self-curing
- Workability at 70°F approx. 15-20 min

Surface Preparation:

Concrete substrates to receive KOSTER SL must be sound, clean and absorptive, free of curing agents, oil, grease, paint, loose particles or any other contaminant that may weaken the bond. The tensile strength of the substrate must be at least 200 psi.

Do not acid etch substrates! Do not clean substrate with chemicals. Do not apply over adhesive residue. Do not bridge movement joints with KOSTER SL.

Plain concrete without KOSTER VAP I® 2000 Moisture Control Coating:

Concrete substrates are prepared by grinding, shot blasting, milling, scarifying, or other abrasive means to achieve an absorbent, open-pored substrate. The cleaned concrete substrate is primed using KOSTER SL Primer. Apply KOSTER SL Primer to the concrete substrate by short-nap roller at 650-800 sq ft/gal. Allow to cure for approximately 1 hour until the surface is dry to touch. Keep the primed surface

clean until the underlayment is installed. Install KOSTER SL underlayment within 48 hours after primer application.

Concrete coated with KOSTER VAP I® 2000 Moisture Control Coating:

The properly installed and fully cured KOSTER VAP I® 2000 coating is primed using undiluted KOSTER VAP I® 06 Primer applied using a short-nap roller at 650-800 sq ft/gal. For further information refer to the data sheet of the KOSTER VAP I® 06 Primer. DO NOT wear metal spike shoes when walking over cured VAP I® 2000 coating to avoid damage to the moisture control coating. Install KOSTER SL underlayment within 48 hours after primer application.

Mixing:

Mix two bags of KOSTER SL at a time. For EACH bag, add 5 to 5.3 quarts of cool, clean potable water into a clean mixing drum. Then add the KOSTER SL in increments, while mixing using an electrical mixer (600 - 700 rpm) with a helix style mixing paddle. After all powder has been added into the mixing water, mix for 2 minutes. The resulting consistency must be lump free.

Installation:

Pour the mixed KOSTER SL on the floor and spread using a gauge rake, a smoother and/or a spiked roller. Cleated shoes (not metal spikes) should be worn to avoid damage to cured KOSTER VAP I® 2000 moisture control coating. KOSTER SL will level itself for 15-20 minutes at 70° F with no troweling needed. It is recommended that two drums are used simultaneously when applying KOSTER SL. In one drum the next batch is mixed while the already mixed batch is poured from the other drum. This will minimize job slowdown while mixing for the required 2 minutes. After use, scrub clean all mixing equipment thoroughly and rinse with water to avoid getting hardened product into subsequent batches. Protect from freezing for 5-7 days. A minimum thickness of ¼ in should be maintained in wide open areas and at least ⅛ in over the highest point of the floor.

Coverage:

Per 55 lb bag:		
Nominal thickness		Approx. Coverage
3/16 in (4.8 mm)		36 sq ft
1/4 in (6.3 mm)		28 sq ft
1/2 in (13.0 mm)		14 sq ft
3/4 in (19.0 mm)		11 sq ft
1 in (25.0 mm)		7 sq ft

Cleaning:

Use water to clean all tools immediately after use. Clean off any uncured mortar with clean water only.

Packaging:

55 lb bag

Storage:

Store in cool, dry place.

Shelf Life:

12 months when stored properly in original unopened package.

For Best Results:

- If applying directly to concrete, the substrate should be cured and dried a minimum of 28 days.
- Only install KOSTER SL on interior projects.
- Install KOSTER SL if surface temperature is between 50° F and 80° F. Ambient air temperature should be above 50° F.
- Do not install over gypsum based surfaces.
- Do not over-water, retemper, or introduce additives.
- Always install a test area to ensure suitability for intended use.
- Not a wearing surface; must be covered with a finish floor covering.
- Rely upon floor covering manufacturer for directions concerning maximum allowable moisture content of subfloor, adhesive selection, etc.
- Do not fill cracks and joints with KOSTER SL.
- Do not install over movement joints or moving cracks.
- Do not install when the substrate tensile strength is less than 200 psi.
- Prior to installing liquid applied coatings (such as epoxy or polyurethane coatings) on top of the underlayment, consult the KOSTER technical team for details on min. cure time and tensile

Material Properties:

Working time at 70° F	15- 20 min
Compressive Strength ASTM C 349-02	28 days 4,350 psi
Flexural Strength ASTM C 348	28 days 870 psi
Tensile Bond Strength ASTM D 7234	28 days >144 psi
Set Time ASTM C 191	
Initial Set after	approx. 30 min
Foot traffic after	approx. 1-3 h
Min. Thickness	3/16 in
Max. Thickness	1 1/4 in

Safety Precautions:

Contains portland cement and silica sand; avoid contact with eyes or prolonged contact with skin. Do not take internally. Eliminate exposure and avoid breathing dust; contains free silica.
 Eye contact – Flush immediately with water and consult physician. DO NOT RUB EYES.
 Skin contact – Wash immediately with soap and water. Wearing safety goggles and gloves is recommended.
 See Material Safety Data Sheet for further information.

Limited Warranty:

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the products data sheet. KOSTER covenants that in the event any of its products fail to meet their published specifications, KOSTER shall replace those products proved to be defective. KOSTER shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, KOSTER's sole liability hereunder shall not exceed the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, KOSTER MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED AND MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.