



KOSTER SL Standard

A cement based self-leveling underlayment

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Features:

KOSTER SL Standard is a high quality, fast curing underlayment that provides a smooth, level surface ready to receive flooring systems.

It may be applied onto a variety of substrates such as the KOSTER VAP I 2000 coatings, concrete, etc. KOSTER SL Standard accepts all major floor coverings and is compatible with most adhesives. It is resistant to abrasion and wear. If the material is installed onto smooth, non-absorbent substrates such as KOSTER VAP I 2000 coatings, the substrate must be primed with KOSTER VAP I 06 Primer. Absorbent substrates such as concrete are primed using the KOSTER SB Bonding Emulsion.

Use:

KOSTER SL Standard is designed for leveling unevenness of plain concrete surfaces as well as of surfaces covered with KOSTER VAP I 2000 vapor barriers. It is intended for interior use.

Benefits:

- Fast cure-rapid strength (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 (21° C), approx. 20 min

Surface Preparation:

Concrete substrates to receive KOSTER SL Standard 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 pull off strength of the substrate must be min. 215 psi. Do not acid etch substrates! Do not clean substrate with chemicals. Do not apply over adhesive residue. Do not bridge expansion joints with the KOSTER SL Standard. Expansion joints must be installed in accordance with local building codes.

Plain concrete without KOSTER VAP I 2000 vapor barrier:

Concrete substrates are prepared by shot blasting,

milling and/or sandblasting in order to achieve an absorbent, open pored substrate. The cleaned concrete substrate is primed using KOSTER SB Bonding Emulsion (coverage: 275-400 sq ft/gal). Concrete surfaces must be prepared with KOSTER SB Bonding Emulsion min. 2 hours and max. 24 hours before KOSTER SL Standard is installed. For further information refer to the data sheet of the KOSTER SB Bonding Emulsion. Keep the primed surface clean until the underlayment is installed.

Concrete coated with KOSTER VAP I 2000 vapor barrier:

The properly installed and fully cured KOSTER VAP I 2000 coating is primed using KOSTER VAP I 06 Primer (coverage: 650-800 sq ft/gal). For further information refer to the data sheet of the KOSTER VAP I 06 Primer.

Mixing:

Mix two bags of KOSTER SL Standard at a time. For EACH bag, add 5 to 5.5 quarts of clean potable water into a clean mixing drum. Then, add the KOSTER SL Standard in increments, while mixing with an electrical mixer (650 rpm). After all material has been added into the mixing water, mix for 2 minutes. The resulting consistency should be lump free.

Installation:

KOSTER SL Standard has a working time of 20 minutes at 70° F with no troweling needed. Pour the mixed KOSTER SL Standard on the floor and spread using a gauge rake, a smoother and/or a spiked roller. Cleated shoes should be worn to avoid leaving marks.

It is recommended that two drums are used simultaneously when applying KOSTER SL Standard. In one drum the next batch is mixed while the already mixed batch is poured from the other drum.

This will minimize job slow down while mixing for the required 2 minutes. After use, clean all mixing equipment thoroughly with water to avoid getting hardened product into subsequent batches. Protect from freezing for 5-7 days.

Coverage:

Per 55 lb bag:

Nominal thickness	Approx. Coverage
3/16" (4.7 mm)	36 sq ft
1/4" (6.4 mm)	24 sq ft
1/2" (12 mm)	12 sq ft
3/4" (18 mm)	8 sq ft
1" (25 mm)	6 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 a minimum of 28 days.
- Only install the KOSTER SL Standard on interior projects.
- Install KOSTER SL Standard if surface temperature is between 45° F and 90° F. Ambient air temperature should be above 50° F.
- Do not install over gypsum based surfaces.
- Do not over-water, retemper, or add additives.
- Always install a test area insuring suitability for intended use.
- Not a wearing surface; must be covered with flooring.
- 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 Standard.
- Do not install over moving joints or moving cracks
- KOSTER American recommends that two mixing drums be used simultaneously, mixing one while pouring the other.
- Do not install when the surface tensile bond strength is < 175 psi.
- For MVER exceeding 3 lbs/24 hours/1000 ft² contact KOSTER American Corporation Technical Services.

- Prior to installing liquid applied coatings (such as epoxy or polyurethane coatings) on top of underlayment, consult the KOSTER technical team for details on minimum cure time and tensile strength development.

Material Properties:

Working time at 70° F	20 min
Compressive Strength ASTM C 109 (Air Cured)	28 days 4,350 psi
Flexural Strength ASTM C 348	28 days 1,100 psi
Tensile Strength ASTM C 190	28 days 350 psi
Set Time ASTM C 191	
Initial Set after	30 min
Foot traffic after	4 h
Installation of next layer	24 h
Min. / Max. Thickness	3/16 in / 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.