



## KOSTER SL

Technical Data Sheet SL 281 025

Issued: 12-27-16

### Fast hardening, cement based self-leveling underlayment

#### Features

KOSTER SL is a high quality, fast setting underlayment that has low shrinkage and provides a smooth, level surface ready to receive flooring systems. It is suitable for use on primed KOSTER VAP I 2000 moisture control coatings or directly on concrete. KOSTER SL accepts all major floor coverings and is compatible with most adhesives.

#### Technical Data

Compressive strength (28 days)	4350 psi
Flexural strength (28 days)	870 psi
Tensile bond strength (depending on substrate)	>145 psi
Application temperature	50 - 77°F
Working time	20 minutes at 68°F*
Walkable	after 3 - 4 hours*
Layer thickness	1/8 - 5/8 in
Fill depressions up to	1 in
*depending on temperature and humidity	

#### Fields of Application

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

#### Substrate

Concrete substrates to receive KOSTER SL must be sound, clean, free of curing agents, oil, grease, paint, loose particles or any other contaminants that may weaken the bond. The tensile strength of the substrate must be at least 200 psi (ASTM C1583). Do not acid etch substrates or clean substrates with chemicals. Do not apply over adhesive residue. Do not bridge movement joints with KOSTER SL.

#### 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 sqft/gal. To avoid damage to the coating, do not wear metal spike shoes when walking over cured VAP I 2000 coating. Install KOSTER SL within 48 hours of primer application.

##### Concrete without KOSTER VAP I 2000 Moisture Control Coating

Concrete substrates are prepared by grinding or shot blasting to achieve an absorbent, open-pored substrate. The cleaned concrete substrate is primed using KOSTER SL Primer. Apply KOSTER SL Primer with a short-nap roller at 650-800 sqft/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 within 48 hours of primer application.

#### Mixing

Mix two bags of KOSTER SL at a time. For each bag, add 5.3 quarts of cool, clean potable water into a clean mixing drum. Add KOSTER SL while mixing using an electrical mixer (600-700 rpm) with a helical mixing paddle. After all powder has been added into the mixing water, mix for 2-3 minutes. The resulting consistency must be lump free. Do not retemper.

#### Installation

Pour the mixed KOSTER SL on the floor. Spread using a gauge rake, a smoother, and/or a spiked roller. Wear cleated shoes (not metal spikes) 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. A minimum thickness of 1/4-in should be maintained in wide open areas and at least 1/8-in over the highest point of the floor. Protect from freezing for 5-7 days. Do not use fans to blow air directly on fresh SLU in an attempt to force dry the product.

#### Coverage

Dependent on application.

Nominal thickness	Approx. Coverage
1/4-in	28 sq ft
1/2-in	14 sq ft
3/4-in	11 sq ft
1 in	7 sq ft

#### Cleaning

Use water to clean all tools immediately after use.

#### Packaging

SL 281 025	55 lb bag
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#### Storage

Store in a cool, dry place.

#### Safety

Consult Safety Data Sheet. Contains portland cement and silica sand; avoid contact with eyes or prolonged contact with skin. Wear personal protective equipment including gloves and safety eyewear. Do not take internally. Eliminate exposure and avoid breathing dust; contains free silica. In case of eye contact, flush immediately with clean water and consult a physician. In case of skin contact, wash immediately with soap and water.

#### 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

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The installer is responsible for the correct application taking into consideration the specific conditions of the construction site and the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which deviate from the specifications contained in any Company literature may not be relied upon in the absence of written confirmation from the Company. The installer must comply with all testing, technical requirement, guidelines, and industry customs at all times. The terms, conditions, and limitations contained in the written warranty for the product controls over the specifications contained herein. This guideline has been technically revised; all previous versions are invalid.



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.

**Related products**

KOSTER SL Primer	Art.-Nr. SL 189 005
KOSTER SL Premium	Art.-Nr. SL 280 025
KOSTER SL Flex	Art.-Nr. SL 284 025

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