



# KOSTER SL Premium

Technical Data Sheet SL 280 025

Issued: 07-02-19

## High strength, fast setting cement based self-leveling underlayment

### Features

KOSTER SL Premium is a high strength, fast setting, self-leveling underlayment that provides a smooth, hard, 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, cast-in-place concrete, or precast concrete. KOSTER SL Premium accepts all major floor coverings and is compatible with most adhesives. KOSTER SL Premium can be applied in layer thicknesses between 3/16-in. and 5/8-in. (5-15mm), can be feathered to 1/8-in. (2 mm) and installed in depressions up to 1 1/4-in. (30mm),

### Technical Data

Bulk density (powder)	1.3 g/cm <sup>3</sup>
Compressive strength (28 days)	6520 psi
Flexural strength (28 days)	1450 psi
Tensile bond strength (depending on substrate)	>400 psi with failure in concrete
Application temperature	40 - 90 °F
Working time	20 minutes at 68 °F
Walkable	after 3 - 4 hours*
Install flooring	after 24 - 72 hours*
Layer thickness	1/8 - 5/8-in. (5-15 mm)
Fill depressions up to	1 1/4-in. (30 mm)
Feather out to	1/8-in. (2 mm)
Extend with gravel to	2 in. (50 mm)

\*depending on temperature and humidity

### Fields of Application

KOSTER SL Premium is designed for leveling uneven concrete surfaces as well as concrete 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 and absorbent, free of curing agents, oil, grease, paint, loose particles or 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. Do not clean substrates with chemicals. Do not apply over adhesive residue. Prime KOSTER VAP I 2000 moisture control coatings with KOSTER VAP I 06 primer for non-porous substrates. Substrates such as metal, wood, and ceramic tile must be primed with KOSTER 06 Primer. Prime bare concrete with KOSTER SL Primer for porous substrates. Do not bridge movement joints with KOSTER SL.

### Application

Concrete Coated with KOSTER VAP I 2000 Moisture Control Coating  
Properly installed and fully cured KOSTER VAP I 2000 coatings must be primed with undiluted KOSTER VAP I 06 Primer using a short-nap roller at 650-800 sq ft/gal. Refer to the primer data sheet. To avoid

damage to the moisture control coating, wear rubber cleat shoes, DO NOT wear metal spikes, when walking on cured VAP I 2000 coatings. Install KOSTER SL Premium underlayment within 48 hours after primer application.

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

Prepare concrete substrates by grinding, shot blasting, milling, scarifying, or other abrasive means to achieve an absorbent, open pored substrate. Prime the cleaned concrete substrate using undiluted KOSTER SL Primer spread by short-nap roller at 400-800 sq ft/gal. Refer to the primer data sheet. Install KOSTER SL Premium underlayment within 72 hours after primer application.

### Mixing

Mix two bags of KOSTER SL Premium at a time. For EACH 55 lb bag, add 5.5 quarts of clean potable water into a clean mixing drum. Add KOSTER SL Premium powder while continuously mixing with an electrical mixer (650 rpm). After all powder has been added into the water, mix for 3 minutes to achieve a flowable, smooth, and lump free consistency. Do not overmix.

### Installation

Pour mixed KOSTER SL Premium on the floor immediately after mixing. Spread using a KOSTER gauge rake. Distribute the material in a consistent flow, working into a wet edge to avoid uneven edges between pours. KOSTER SL Premium will level itself in 15-20 minutes at 70 ° F with no troweling needed. Scrub mixing equipment thoroughly and rinse with water to avoid getting hardened product into subsequent batches. Maintain a minimum thickness of 3/16-in. in open areas and 1/8-in. over the highest point of the floor. Protect from freezing for 5-7 days.

### Floor Covering Installation

Install moisture sensitive floor coverings after KOSTER SL Premium has cured and dried. Depending on ambient temperature and relative humidity, drying may take 24 - 72 hours.

### Extending with Pea Gravel

To install material at depths thicker than 5/8", KOSTER SL Premium can be mixed with pea gravel at a ratio of 30-40 lbs per 55 lb bag of KOSTER SL Premium. Pea gravel must be clean and dry, and should be between 1/4" and 3/8". When extending the material, it can be installed up to 2 inches. More than one installation is required to install to depths thicker than 2 inches, and may be necessary to create a smooth surface for the installation of floor coverings. Extending the material with aggregate or installing the material at thicker depths may affect drying time before the installation of floor coverings.

### Aftertreatment

When the material has been applied in thick layers, covering the

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hardened material with a polyethylene sheet will improve curing and reduce surface shrinkage tension.

### Coverage

1/4 in-27 sqft/bag	
3/16-in. (4.8 mm)	36 sq ft
1/4-in. (6.3 mm)	27 sq ft
1/2-in. (13.0 mm)	13 sq ft
3/4-in. (19.0 mm)	9 sq ft
1-in. (25.0 mm)	6.5 sq ft

### Cleaning

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

### Packaging

SL 280 025 55 lb bag

### Storage

Store in a cool, dry place.

### Safety

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.

### Related products

KOSTER VAP I 2000 Zero VOC	Art.-Nr. CT 230
KOSTER VAP I 2000 FS	Art.-Nr. CT 233
KOSTER Gauge Rake	Art.-Nr. CT 915 001
KOSTER SL Primer	Art.-Nr. SL 189 005

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