



## KOSTER KnuLevel

### Self-Leveling, Interior Cementitious Underlayment

#### Features

KOSTER KnuLevel is a high quality, self-leveling, fast setting, cementitious underlayment intended for interior use on concrete floors. It is easy to mix, pour, and spread, producing a smooth, level surface ready to receive flooring systems. It is walkable in 3-4 hours. KOSTER KnuLevel is intended to be applied onto a cementitious substrate. KOSTER KnuLevel accepts most major types of floor coverings and is compatible with most adhesives. It is not intended as a wearing surface. Do not use over KOSTER VAP I® 2000 moisture control systems.

#### Technical Data

Working Time:	approx. 25-30 min at 70°F (ASTM C1708)
Thickness:	3/16 in. to 1 1/4 in. (neat) up to 5" (w/ aggregate) Refer to KOSTER USA SLU aggregate mix guidelines.
Initial Set	approx. 30 min (ASTM C191)
Compressive Strength:	>5000 psi at 28 days (ASTM C109)
Walkable:	approx. 3-4 hours
Install Flooring:	approx. 16 hr / depending on temperature and humidity.

#### Substrate

Substrates to receive KOSTER KnuLevel must be sound, clean, and free of curing compounds, oil, grease, paint, loose particles, or any contaminant that may weaken bond. The tensile pull off strength of the substrate must be at least 200 psi (ASTM C1583). Do not acid etch substrates. Do not clean concrete substrate with chemicals. May be applied over traces of adhesive residue. Do not bridge movement joints with KOSTER KnuLevel. Environmental temperature must be 50 - 90°F.

#### Application

##### For use directly on concrete:

Consult individual product data sheets for information. For direct application to concrete, the concrete surface must be absorptive. Dense, hard-troweled concrete, or concrete with residual curing compounds must be mechanically abraded to minimum ICRI CSP3 until water is easily absorbed. Clean the surface thoroughly by sweeping and vacuuming to remove dust. Prime the cleaned concrete substrate using KOSTER SL Primer. Apply a thin, even coat of primer at 400 - 800 ft<sup>2</sup>/gal. Thick application may cause bonding problems. Allow to dry to a translucent green film, usually 30 min to 1 hr at 70°F and 50% RH. High humidity or low temperature will extend drying time. Keep the primed surface clean until the underlayment is installed. Install KOSTER KnuLevel within 48 hours after primer application. Concrete moisture must be less than 90% RH. Test concrete moisture

according to ASTM F2170. If concrete moisture exceeds 90% RH, DO NOT INSTALL KOSTER KnuLevel. Instead, install KOSTER VAP I® 2000 moisture control coating and use KOSTER LevelStrong™ Self Leveling Underlayment.

**Mixing:** Mix TWO bags of KOSTER KnuLevel at a time. Pour 9.5-10 quarts (9-9.46 L) of clean potable water into a clean mixing vessel (4.75-5 qts water for each 50-lb bag). Do not over-water! (It is recommended to start at the lower water demand of 4.75 qts/bag.) Add two 50-lb. bags of KOSTER KnuLevel in increments while mixing with an electrical mixer equipped with a suitable helical or egg-beater style mixing paddle at 600 - 700 rpm. After all material has been added into the mixing water, continue mixing for 2 to 3 minutes. The resulting consistency must be smooth, flowable, and lump free.

**Installation:** Pour mixed KOSTER KnuLevel onto the floor and spread using a gauge rake. A smoothing tool may be used to blend freshly poured material into adjacent pours. Wear non-metallic cleated shoes. KOSTER KnuLevel will level itself over 20-25 minutes at 70°F with no troweling. Spike Rolling may not be required. Protect poured underlayment from excessive heat, cold, premature drying, or freezing. Setting and drying times will be shortened in hot temperatures and extended in cold temperatures.

#### Coverage

Dependent on application

Thickness	ft <sup>2</sup> /bag	lb/ft <sup>2</sup>
3/16-in. (4.8 mm)	33 ft <sup>2</sup>	~1.52 lb/ft <sup>2</sup>
1/4-in. (6.3 mm)	25 ft <sup>2</sup>	~2 lb/ft <sup>2</sup>
1/2-in. (13.0 mm)	12 ft <sup>2</sup>	~4.17 lb/ft <sup>2</sup>
3/4-in. (19.0 mm)	8 ft <sup>2</sup>	~6.25 lb/ft <sup>2</sup>
1-in. (25.0 mm)	6.25 ft <sup>2</sup>	~8 lb/ft <sup>2</sup>

#### Cleaning

Clean mixing equipment thoroughly with water and stiff scrub brush to avoid getting hardened product into subsequent batches. Keep mixing bucket clean.

#### Packaging

SL 290 022 50 lb bag

#### Storage

Store in a cool, dry place.

#### Eligible LEED Credits

Recycled Content

#### Safety

May cause skin irritation. May cause serious eye irritation. May cause

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## Waterproofing Systems

serious eye damage. May cause respiratory irritation. Keep out of reach of children. Avoid breathing dust. Wear eye protection/face protection. IF IN EYES: Rinse thoroughly with water for several minutes. Remove contact lenses, if present, and continue rinsing. Seek medical attention. IF INHALED: Remove victim to fresh air, keep at rest, monitor breathing, and seek medical attention. Empty bags can be disposed normally. Dispose left over material in accordance with regulations. Contains: Silica sand CAS No.14808-60-7 (45-65%), Calcium aluminate cement CAS No. 65997-16-2 (8-20%), Portland cement CAS No. 65997-15-1 (3-10%). SILICA WARNING: Contains quartz sand (crystalline silica). Excessive exposure to respirable crystalline silica can cause silicosis and may cause other lung disease. Crystalline silica is considered a hazard by inhalation and under IARC is classified in Group 1, carcinogenic to humans. Use engineering controls and work practices such as local exhaust ventilation to avoid exposure and wear a N-95 dust mask while mixing. Consult 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 Gauge Rake	Art.-Nr. CT 915 001
KOSTER SL Primer	Art.-Nr. SL 189

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