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# KOSTER

## Waterproofing Systems

### KOSTER IB

#### Isolation Barrier / Underlayment for Permanently Damp Floors

Technical guideline / Article number 5.085

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#### Features:

KOSTER IB is an underlayment with self leveling properties intended for use on permanently damp floors. KOSTER IB does not contain gypsum and is resistant to re-emulsification and permanent high alkalinity. The underlayment allows foot traffic soon after its application and is resistant to abrasion and wear.

It may be applied onto a variety of substrates such as the KOSTER VAP I 2000 coatings, concrete, etc. KOSTER IB accepts all major floor coverings and is compatible with most adhesives.

#### Use:

KOSTER IB is used to level unevenness of interior and exterior cementitious floors. In wet areas, it may be used under tile, ceramic coverings or as a screed. The underlayment is especially suitable as surface preparation for KOSTER VAP I 2000. KOSTER IB is not a decorative final coating. KOSTER IB 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)
- Non-shrinking
- 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. 20 mins

#### Surface Preparation:

Concrete substrates to receive KOSTER IB 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 IB. 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 open pored, clean and dust-free surface is pre-wetted with water. The surface must be free of a water film, pores must be saturated.

#### 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 IB at a time. For EACH bag, add 5 quarts of clean potable water into a clean mixing drum. Then, add the KOSTER IB 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 IB will level itself for 15 - 20 minutes at 70° F with no troweling needed. Pour the mixed KOSTER IB 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 IB. 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. KOSTER VAP I 2000 vapor barriers can be installed after 48 hours. Protect from drying out during the curing time. Layer thickness: 1/8" – 1" (3 – 25 mm). KOSTER VAP I 2000 may be applied to the underlayment after a curing time of at least 24 hours and after the surface of the underlay-

ment has been brush blasted to a minimum CSP 2. For additional information, please contact KOSTER American Corporation.

### Coverage:

Per 55 lb bag:	Approx. Coverage
Nominal thickness	
1/8" (3 mm)	42 sq ft
1/4" (6 mm)	21 sq ft
1/2" (12 mm)	10 sq ft
1" (25 mm)	5 sq ft
1 1/4" (31 mm)	4 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 IB on interior projects.
- Install KOSTER IB if surface temperature is between 40° 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 IB.
- 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.
- 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 minimum cure time and tensile strength development.

### Material Properties:

Working time at 70° F	15-20 min
Compressive Strength ASTM C 109 (Air Cured)	
28 days	4500 psi
Flexural Strength ASTM C 348	
28 days	1000 psi
Tensile Strength ASTM C 190	
28 days	400 psi
Set Time ASTM C 191	
Initial Set after	30 min
Foot traffic after	2 h
Installation of next layer	6 h
Min/Max Thickness	1/8 in – 1 1/2 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.