



**SURECRETE®**

**DK  
700**

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**CLASS 1 VAPOR BARRIER**

## DESCRIPTION

**DK 700** is a 2 component solvent-based urethane primer, 97% solids, low VOC (<40 g/L), class 1 vapor barrier that meets ASTM-E96-E93. **DK 700** stops water vapor transmission, to less than 1/2 pound per 1,000 sq. ft. This unique water vapor barrier opens up the possibility of applying high performance resinous coatings, including all Dura-Kote Systems, to uncured or moisture-laden concrete that was never before possible. It can also be used under applications of VCT, linoleum, and carpeting.

**DK 700** penetrates without blistering into the concrete's porous surface to generate mechanical interlock and superior bonding of Dura-Kote systems that follow its application. Bond strength exceeds that of traditional epoxy primers. **DK 700** offers these advantages when applied in advance of any Dura-Kote Coatings:

- Moisture barrier
- Increased adhesion
- Better mechanical properties (including flexural and tensile strength)
- Increased working time

## SURFACE PREP

The principles for surface preparation for **DK 700** are addressed with the required surface preparation for the Dura-Kote system selected, see TDS of that system. An exception would be for moisture limits which are addressed by **DK 700**. The surface must be clean, sound, and profiled, as for all specialty sealers. This product is not a shortcut for poor surface preparation.

## TEMPERATURE/CURE

Apply when surface and ambient temperatures range between 50 F (10 C) and 90 F (32 C) and will remain that way for 24 hours.

## MIXING & APPLICATION

### Planning

1. Select appropriate PPE (personal protection equipment). Provide adequate ventilation. Refer to SDS.
2. Work across the narrowest dimension of an area where practical.
3. Work to an exit from wet product.
4. Track coverage rate for each gallon (3.8 liter). After establishing room dimensions, before mixing commences, place a short piece of masking tape on the wall to correspond to the "distance" one gallon should cover.
5. **DK 700** should be acclimated to room temperature, before application. Ideal room temperature is 78 degrees and 50% relative humidity.

NOTE: Mask all areas requiring protection; product will stick to just about everything.

### Mixing and handling

1. Organize mixing station that neither has to relocate, nor block the progress of application. Staging is critical so that Part "A" and Part "B" are not confused with one another or mixed too far in advance. Once A and B are mixed, the catalyzed product should be placed on the floor immediately. If left in the pail too long, product will cure at an accelerated rate rendering it useless.
2. Pour 1 part B into 3 parts A. Note that kits are premeasured for convenience. Exercise care to avoid pouring product down the

## QUICK FACTS

### PACKAGING

1 gallon (3.8 L) kit  
1 gal. Part A (3.8 L) short-filled pail containing 3 qts. (2.85 L)  
1 qt. Part B (.95 L)

### MIXING RATIO

3:1 / 3-parts A to 1-part B

### COVERAGE

Varies due to porosity of substrate, approximately 320-400 ft.<sup>2</sup> (28 m<sup>2</sup>) per gallon (3.8 L) or 3-4 mils wet.

- sides of the pail, as this will be difficult to mix.
3. Mechanically mix both parts A and B with "Jiffy" style mixer blade for 5 minutes at medium speed. Jiffy style mixer at medium speed will help prevent air entraining.
  4. Pour contents completely out in a fairly long trail for application. Any unused portion left in the pail can cure at an accelerated rate rendering it useless.
  5. Do not leave pail upside down to drain onto floor. Any unmixed portion of A or B that may have accidentally been placed onto side of pail can now drain down onto the floor, creating a spot that will not cure.

NOTE: Clean out or replace mixing pails, mixer blades, and roller covers in a reasonable fashion, so that the chemistry of A and B remain consistent, especially over large projects.

### Placement

**DK 700** may be applied with roller or squeegee and then back-rolled.

1. Select nap size approximately 3/8" or (9.5 mm).
2. Rollers should be premium quality with phenolic core.
3. "De-fuzz" roller by wrapping tightly with masking tape and removing tape.
4. Large areas may require 18" (46 cm) rollers and wider squeegees.
5. Spread product evenly over area, areas adjacent to walls may be "cut in" by brush, apply no more than 3-5 mils wet.

Allow **DK 700** to dry to the touch and tack-free (approximately 4 – 6 hours) before applying Dura-Kote systems or other specialty sealer. If allowed to dry past 24 hours, the surface must be screened with a 100 grit sanding screen on a rotational floor machine and **DK 700 reapplied**.

## CLEAN-UP

**DK 700** can be cleaned up with a solvent such as xylene or acetone.

## DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product. Upon curing, left over catalyzed product is not hazardous.

## LIMITATIONS

- For use by trained professionals that have read the complete SDS.
- Do not apply on visibly wet or moist concrete.

## WARRANTY

An ASTM moisture Test must be performed and documented before and after application of this product, for warranty to be valid.

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufacturer's/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

## CAUTIONS

KEEP OUT OF REACH OF CHILDREN. Inhalation: If spraying, avoid prolonged breathing of airborne mist. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. Skin Contact: Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. Eyes: Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

## TYPICAL PROPERTIES

Solids	96.5%
VOC's	<40 g/L
Tack Free Time	4 ½ hours at 78 F (26)
Water Vapor Transference	< .02 (ASTM E-96-93)
Water Permeance	< .1
Adhesion to Dry Concrete	621 psi (ASTM-D4541-65)
Adhesion to Wet Concrete	621 psi(ASTM-D4541-65)

## PRODUCT PART #'S

Part A	SKU# 55104100
Part B	SKU# 55104101