

## PRODUCT INFORMATION SHEET VAPOR PRIME

### Description:

Vapor Prime is a specially formulated, 100% solids epoxy coating, designed for use over concrete with high moisture levels for the purpose of isolating the concrete from moisture sensitive flooring. Vapor Prime is suitable for concrete substrates indicating up to 99% RH when measured in accordance with ASTM F2170.

Vapor Prime has been formulated for low viscosity and excellent substrate wetting capabilities to promote penetration and adhesion. The special curing agent allows for adhesion to damp concrete. Vapor Prime is available in a fast cure version when quicker turnaround is necessary. The product may be applied at temperatures between 65°-85°F.

### Advantages:

- Allows coating of high moisture content concrete substrates
- Prevents failures due to excessive concrete moisture content
- Extremely low perm rating

### Packaging:

Supplied in complete A+B 1.5 gallon (5.68 L) or 3.0 gallon (11.36 L) total volume mixed units. Use only as complete mixed unit, do not break down into partial mixes.

### Shelf Life:

One (1) year from date of manufacture, in original unopened container. Store away from heat sources between 50°F and 85°F (10°C - 30°C). Do not allow to freeze.

### Handling & Safety:

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand Safety Data Sheet before using. Pli-Dek Safety Data Sheets are available upon request at [infoplidek@icpgroup.com](mailto:infoplidek@icpgroup.com).



Scan here to visit the Pli-Dek website

### Mixing Instructions:

Vapor Prime is packaged in pre-measured kits. Proper mixing is absolutely critical for success. The product is available in 1.5 gallon and 3 gallon kits. Do not attempt to mix partial kits. Pour the entire contents of Part B into the Part A container. Use a margin tool or scraper to remove all of the Part B from the container. With low or medium speed drill and Jiffy type attachment, mix for 1 full minute. Be sure to move the drill around the mixing container scraping the sidewalls and bottom. Do not pigment.

### Application:

#### Surface Preparation:

Concrete must be cured for at least 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be shot blasted to achieve a surface minimum texture of ICRI 3-4.

**Diamond abrasive grinding is not recommended. Acid etching is not recommended and will void Manufacturer's warranty.**

Carefully follow the guidelines listed in the Pli-Dek LLC published application instructions available at [www.plidek.com](http://www.plidek.com). Vacuum prepared concrete surface to remove all dust. Refer to published technical data for Vapor Prime Primer and Vapor Prime Joint Filler products for specific preparation requirements. For Joint Treatment Contact Pli-Dek LLC.

#### Application:

Pour material out of the pail immediately after mixing. Spread the product with a flat trowel or squeegee to achieve the coverage rate of 100 sq. ft. per gallon if using the single coat system. Measure off the application area and mix the appropriate amount of material for that area. Application personnel wearing spiked shoes then back roll the wet material to produce a uniform film thickness. Use a 1/2- or 3/4-inch nap roller cover. This coverage rate will leave a dry film thickness of 16 mils. If using over Vapor Prime Primer, the coverage rate should be 200 sq. ft. per gallon as the finish coat.

### Technical Data:

Mixing Ratio by Volume	Mix Full Kits Only
VOC	<1 g/l
Adhesion to Concrete ASTM D-4541	>500 psi
Permeability One coat over concrete at 100 sq. ft./gallon (ASTM E-96), without primer	0.001 perms
Resistance to alkalinity, (ASTM D-1308) (film exposed to 35% solutions of potassium hydroxide and sodium hydroxide for 60 days)	No visual change, 0.09% weight gain
Cure Time (77°F)	~6-7 Hours
Higher temperatures and lower humidity will shorten cure time. Lower temperatures and higher humidity will increase cure time.	

### Limitations:

Do not apply directly to concrete that is known or suspected of being previously treated with sodium or potassium silicate. Use Vapor Prime Primer if surface has been treated. Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point. High humidity/low temperature will prolong cure time. Use of kerosene or propane forced air heating equipment during application may cause discoloration of the finish.

### Warranty:

Please contact Pli-Dek for details.

### Disclaimer:

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### Technical Assistance:

Contact Pli-Dek for any job specific questions.