

## PI.225 – PRODUCT INFORMATION: E100-VB5™ Epoxy Vapor Barrier

Revised: 3/15/21 Version: 1.0

### DESCRIPTION

E100-VB5™ Epoxy Vapor Barrier is a two component, premium quality, 100% reactive, medium viscosity, moisture-insensitive, non-shrink, modified epoxy vapor barrier primer. E100-VB5™ is formulated to penetrate the capillaries of concrete and fill pores within the surface structure. E100-VB5™ has excellent penetration and adhesion to the aggregate and cures under dry conditions.

### ADVANTAGES

- Zero VOC
- Unsurpassed adhesion
- Protects against light vapor transmission and rising damp
- Extremely easy to use

### TYPICAL APPLICATION & USES

- **REFLECTOR™ Enhancer Flooring Systems:** As the epoxy vapor barrier.
- **HERMETIC™ Neat Floor:** As the epoxy vapor barrier.
- **HERMETIC™ Flake Floor:** As the epoxy vapor barrier.
- **HERMETIC™ Color Quartz Floor:** As the epoxy vapor barrier.
- **HERMETIC™ Stout Floor:** As the epoxy vapor barrier.
- **HERMETIC™ Paramount Floor:** As the epoxy vapor barrier.
- **HERMETIC™ Paramount Heavy Duty:** As the epoxy vapor barrier.

### LIMITATIONS

- Not for use on exterior concrete
- Not intended as a wear coat
- Two coats may be required
- Subject to UV degradation when exposed to direct sunlight for long period of time.
- Not recommended for surfaces subject to continuous water submersion.

### APPLICABLE STANDARDS

E100-VB5™ complies with all applicable air quality management regulations including those restricting VOC content to less than 50 g/L.

### PACKAGING

E100-VB5™ is available from stock in:

- 2 U.S. gallon / 7.57 liter kits
- 10 U.S. gallon / 37.85 liter kits
- 100 U.S. gallon / 378.54 liter kits

### COVERAGE

- Smooth grind concrete: 250 to 300 sq. feet. / 23.22 to 27.87 sq. meters.
- Lightly shot blast or medium grind texture: 225 to 275 sq. feet / 20.90 to 25.55 sq. meters.
- Medium shot blast or heavy grind texture: 200 to 250 sq. feet / 18.58 to 23.22 sq. meters.

### SHELF LIFE

When stored in temperature-controlled areas above 45 degrees Fahrenheit or 7.2 degrees Celsius, shelf life is one year for unopened

containers. It is recommended to rotate stock as formula improvements may be made when technology becomes available. Open containers require the use of a nitrogen blanket and reseal to become air tight.

### CAUTIONS

Although E100-VB5™ has little or no odor and carries zero VOC, it should only be used with adequate ventilation. Avoid contact with eyes and skin. **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.** Ensure fresh air entry during application. If you experience watering eyes, headaches, or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear a properly fitted respirator (NIOSH/MSHA TC 23C approved) during and after application. Follow respirator manufacturer's directions for use. E100-VB5™ is an irritant which can develop redness of skin and allergic reaction. Always use protective clothing, gloves and eye wear.

Read the Material Safety Data Sheet for additional information and before use.

### ADDITIONAL NOTES

See document: *PI.551 – Resinous Flooring Guidelines* for information pertaining to rising damp, vapor transmission and applicable recommended testing methods prior to use.

See TECHNICAL DATA SHEET for specific performance characteristics and relative humidity thresholds.

### DO NOT ALLOW TO FREEZE.

Preconditioning epoxy resins - When exposed to prolonged periods of cold temperature, epoxy resins typically thicken, may crystalize and become harder to flow or spread. To improve the product flow-ability maintain temperature at about 70 degrees Fahrenheit or 21 degrees Celsius before mixing. Crystalized epoxy can be reconstituted at 90 degrees Fahrenheit or 32 degrees Celsius for 12 hours and remixed.

### CLEAN UP

In case of spills, contain and collect with absorbent material, place in suitable container. Dispose according to applicable local, state, and federal regulations.

The use of warm water will assist in the cleanup of work area and tools.

### FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact Physician Immediately. Wash clothing before re-use.

### WARRANTY SUMMARY

For the complete warranty statement and important limitations, read the Safety Data Sheet and Warranty. Generally, Elite Crete Systems, Incorporated represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of the defective product. The end user shall determine product's suitability and assume all risks and liability.