1061 Transport Drive, Valparaiso, IN 46383
Toll Free 888.323.4445 ● P 219.465.7671
F 219.531.0898 ● www.elitecrete.com

TD.468 – TECHNICAL DATA: E100-VB5™ Epoxy Vapor Barrier

Revised: 1.5.16

Product Name: E100-VB5™ Epoxy Vapor Barrier

Product Class: An epoxy vapor barrier for concrete surfaces that are to be top coated with an epoxy coating.

DESCRIPTION: E100-VB5™ Epoxy Vapor Barrier is a high solids, low viscosity, two-component epoxy primer system designed to reduce or eliminate out gassing bubbles in concrete and seal out water penetration. Excellent impact resistance, chemical resistance and superior substrate penetration. Out performs solvent-based sealers and primers.

Typical Uses:

- Sealing green concrete surfaces (7 days depending on conditions).
- Sealing existing concrete surfaces.
- Reduces or eliminates out gassing bubbles in concrete.
- Resistant to up to 12 pounds of vapor pressure in concrete.
- Seals concrete from moisture intrusion.
- Very good chemical resistance.

Key Features:

- Slows hydration in new concrete, increasing strength
- Reduce or eliminate out-gassing bubbles in top coats
- Seals out moisture intrusion
- Nearly No Odor
- VOC compliant (0 g/l)
- Air Releasing
- Low Viscosity
- Fast Cure Rate
- Excellent Strength Properties
- Excellent Impact Resistant
- Easy to Place
- USDA Acceptable

Product Properties: (Material and curing conditions at 75^{0}F (23° C) unless noted, 50% R.H.)

- Color – Amber/Green
- Viscosity @ 75^{0}F (23° C)
  - Part A 900 cps
  - Part B 1000 cps
  - Mixed 300 cps (WITH WATER ADDED)
- Pot Life: 25 minutes
- Tack Free: 4 to 6 hours
- Recoat or top coat: 6 to 8 hours
- Foot traffic 8 to12 hours
- Heavy traffic: + 24 hours

PHYSICAL PROPERTIES
(@77^{0}F (24° C), 7 day ambient cure)

Solids by volume	58%		
Volatile Organic Content	0%		
Colors available	Amber/Green only		
Recommended thickness	5-8 mills (3-6 mills dry)		
Coverage per mixed gallon	225 to 300 sq. ft. per gallon		
Packaging	2 gallon or 10 gallon units. 100 gallon units available as special request		
Mix Ratio:	1 Part A to 1 Part B by volume (Note: add 2 pints of water per mixed gallon **after** mixing A & B)		
Shelf Life	1 year in unopened containers (do not store below 45 F°)		
Abrasion resistance			
Taber Abrasion CS-17 wheel with 1000 gm. load		ASTM 4060	45 MG loss
Impact resistance			
Gardner impact direct			50 in. lb. (passed)
Bond Strength		ASTM S4541	Substrate Failure 450 psi
Perm Rating		ASTM E96	> 0.2

CHEMICAL RESISTANCE
Splash & Spill Applications (2 hour clean up)

Water (fresh and Salt)	**Butanol**
10% Sodium Hydroxide	**Xylene**
10% Sulfuric Acid	**111 Trichloroethane**
10% HCL	**Gasoline**

IMPORTANT: Mix part A and Part B throughly for 2 minutes with slow speed drill and mix paddle.

Then add 2 pints of clean potable water to each mixed gallon.
APPLICATOR MUST FIRST MIX PART A AND B BEFORE ADDING THE WATER.

Packaging: 2 gal. kits and 10 gal. kits. 100 gal. kits available as special order.