

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°F (23° C) unless noted, 50% R.H.)

- Color – Amber/Green
- Viscosity @ 75°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 to 12 hours
- Heavy traffic: + 24 hours

PHYSICAL PROPERTIES

(@77°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:	<u>1 Part A to 1 Part B by volume (Note: add 2 pints of water per mixed gallon after mixing A & B)</u>		
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 thoroughly for 2 minutes with slow speed drill and mix paddle.

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

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