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## 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)

o Part A 900 cps o Part B 1000 cps

o 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°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)

Adhesion 450 psi

@ Elcometer 100% concrete failure no delamination

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

Water (fresh and Salt)

10% Sodium Hydroxide

Butanol

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.

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.

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