

TD.473 – TECHNICAL DATA: E100-VR1™ Clear UV Resistant Epoxy

Revised: 1.23.16

Product Name: E100-VR1™ Clear UV Resistant Epoxy

Product Class: Clear epoxy protective coating

Description:

E100-VR1™ is 100% solids, UV resistant, low viscosity, clear, high gloss epoxy coating system specifically designed for incidental interior exposure to UV attack.

Bonds to slightly damp concrete and is not effected by high humidity. Resistant to microbial growth and fungus. Exceptional hardness to provide years of service.

TYPICAL USES:

REFLECTOR™ Enhancer Flooring Systems
 HERMETIC™ Color quartz & flake broadcast floors
 HERMETIC™ Stout & Paramount floors
 Use for protective base or top coat

FEATURES:

Good chemical resistance
 Excellent UV resistance
 Bonds to damp concrete
 No effect in high humidity

VISCOSITY: @ 73°F

Part A 625 cps
 Part B 175 cps
 Mixed 450 cps

CURE SCHEDULE: @ 75F (24C)

Pot Life: 20 minutes
 Tack Fee: 7 to 8 hours
 Full traffic + 24 hours

MIX RATIO: 2 Parts A to 1 Part B by Volume

PHYSICAL PROPERTIES

| | | |
|--------------------------------|-------------|----------------------|
| Compressive Strength | ASTM D 695 | 11,900 psi |
| Tensile Strength | ASTM D 638 | 5600 psi |
| Elongation at Break | ASTM D 638 | 3.9% |
| Flexural Strength | ASTM D 790 | 4500 psi |
| Abrasion Resistance | | |
| CS-17 Wheel, 1 kg load | ASTM 4060 | 09 mg loss |
| Water Absorption (2 hour boil) | ASTM D 570 | 0.07% |
| Shore D Hardness | ASTM D 2240 | 76 |
| Heat Distortion Temperature | ASTM D 648 | 130 F |
| Volatile Organic Content | | 0.00 lbs. per gallon |

CHEMICAL RESISTANCE

| | |
|--------------------------------|----------------------------|
| Water (fresh and Salt) | Butanol |
| 1%-50% Sodium Hydroxide | Xylene |
| 1%-10% Sulfuric Acid | 111 Trichloroethane |
| 1%-10% HCL | Oil |
| | Gasoline |

Available Packaging:

- 1.5, 3, 15 and 150 gallon kits.
- Larger volume packaging available upon request only as the mix ratio is not typical of most two-component coatings.

Suggested Storage:

- Store in a temperature and weather controlled area between 65° F and 85° F.
- Do not allow to freeze.
- Shelf Life - 1 year in original unopened containers.