

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	2,800 psi
Elongation at Break	ASTM D 638	3.9%
Flexural Strength	ASTM D 790	6,200 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	76-85
Heat Distortion Temperature	ASTM D 648	130 F
Volatile Organic Content		0.00 lbs. per gallon
Coefficient of Friction	ASTM D 2047	> 0.6

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.