

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

Revised: 12/27/19

**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 affected by high humidity. Resistant to microbial growth and fungus. Exceptional hardness to provide years of service.

**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: @ 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:**

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

**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.