

TD.471 – TECHNICAL DATA: E100-UV1™ Clear Epoxy

Revised: 1.29.16

Product Name: E100-UV1™ Clear Epoxy – 100% Solids Epoxy

Product Class: A high-build or thin, clear epoxy floor coating for commercial and industrial traffic use.

Description: Elite Crete Systems product E100-UV1™ Clear Epoxy is a 100% solids, medium viscosity, water clear, non-shrink, two-component epoxy coating designed for a wide variety of applications. E100-UV1™ Clear Epoxy will not blush or water spot and has excellent physical and chemical resistant properties.

Typical Uses:

- Sealing and protecting concrete floors.
- Flake or quartz broadcast binder.
- Binder for epoxy mortar and slurry coats.
- Clear protective topcoat for color flake or quartz applications.
- Concrete surfaces for foot traffic and vehicular pneumatic tires.
- As a clear protective coating for interior flooring, polymer modified concrete overlays and industrial floors.
- Use in the HERMETIC™ Flooring Systems.
- Used in the REFLECTOR™ Enhancer Flooring Systems.

Key Features:

- High-Gloss, Non-Blush Film
- Nearly No Odor
- 100% Solids (0% VOC)
- Non-Shrink Coating
- Self Leveling and Air Releasing
- Medium Viscosity
- Fast Cure Rate
- Excellent Strength Properties
- Excellent Impact Resistance
- Easy to Place
- Use Neat, Slurry, Broadcast or as Binder for Mortar
- USDA Acceptable
- Convenient 2 to 1 ratio by volume

Product Properties: (Material and curing conditions at 77°F (24° C) unless noted, 50% R.H.)

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|--|-------------------------------|----------------------|
| • Color – Clear | • Tack Free: 6 to 8 hours | <u>Standard Cure</u> |
| • Viscosity @ 77°F (24° C) | • Foot Traffic: 8 to 12 hours | |
| o Part A 800 cps | • All Traffic: + 12 hours | |
| o Part B 200 cps | • Consistency: Self-Leveling | |
| o Mixed 600 cps | | |
| • Pot Life: 20 minutes – Out of the mixing container | | |

PHYSICAL PROPERTIES

(@77°F (24° C), 7 day ambient cure)

Compressive Strength	ASTM D 695	13,400 psi
Tensile Strength	ASTM D 638	4,200 psi
Elongation at Break	ASTM D 638	8.2%
Flexural Strength	ASTM D 790	6,400 psi
Abrasion Resistance		
CS-17 Wheel, 1 kg load	ASTM 4060	24 mg loss
Water Absorption (2 hour boil)	ASTM D 570	0.09%
Shore D Hardness	ASTM D 2240	85 (7 days)
Heat Distortion Temperature	ASTM D 648	120°F
Volatile Organic Content		0.00 lbs. per gallon
Slant Shear	ASTM C 882	100% concrete failure

Testing results are not based on the use of the product as a complete finish.

CHEMICAL RESISTANCE

Splash & Spill Applications

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

Available Packaging:

- 1 gal. kit
- 3 gal. kit
- 15 gal. kit
- 150 gal. kit

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.