

TD.462 – TECHNICAL DATA: E100-PT1™ Crystal Clear Epoxy

Revised: 4.1.10

Product Name: E100-PT1™ Crystal Clear Epoxy – 100% Solids Epoxy – Clear (Standard and Fast Cure)

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

Description: Elite Crete Systems product E100-PT1™ Crystal Clear Epoxy is a 100% solids, low viscosity, water clear, non-shrink, two-component epoxy coating designed for a wide variety of applications. E100-PT1™ Crystal Epoxy will not blush or water spot and has excellent physical and chemical resistant properties. E100-PT1™ Crystal Clear Epoxy is available in standard and fast cure formulas.

Typical Uses:

- Sealing and protecting concrete and polymer modified concrete overlays.
- Primer for epoxy mortars.
- Broadcast coating for industrial flooring.
- Binder for epoxy mortar.
- Clear protective top coat for color quartz applications.
- On dry concrete surfaces and concrete overlays.
- Concrete surfaces for foot traffic and vehicular pneumatic tires.
- As a clear protective coating for interior flooring, polymer modified concrete overlays and industrial floors.
- As a clear finish for pigments industrial coatings, etc.
- As a pigmented protective finish for garage floors, warehouses, medical facilities, etc.

Key Features:

- High-Gloss, Non-Blush Film
- Nearly No Odor
- 100% Solids (0% VOC)
- Non-Shrink Coating
- Self Leveling and Air Releasing
- Low 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.)

		<u>Standard Cure</u>	<u>Fast Cure</u>
• Color – Clear		• Tack Free: 4 hours	3 hours
• Viscosity @ 77°F (24° C)		• Foot Traffic: 7 hours	4 hours
o Part A 500 cps		• All Traffic: 9 hours	5 hours
o Part B 120 cps		• Consistency : Self-Leveling	
o Mixed 300 cps			
• Pot Life: 20 minutes (standard cure). 15 minutes (fast cure).			

PHYSICAL PROPERTIES

(@77°F (24° C), 7 day ambient cure)

Compressive Strength	ASTM D 695	12,000 psi
Tensile Strength	ASTM D 638	6,100 psi
Elongation at break	ASTM D 638	6.1%
Flexural Strength	ASTM D 790	7,500 psi
Abrasion resistance		
CS-17 Wheel, 1 kg load	ASTM 4060	30 mg loss
Water Absorption (2 hour boil)	ASTM D 570	0.09%
Shore D hardness	ASTM D 2240	89 (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

CHEMICAL RESISTANCE

Splash & Spill Applications

Water (fresh and Salt)
1%-50% Sodium Hydroxide
1%-10% Sulfuric Acid
1%-10% HCL

Butanol
Xylene
111 Trichloroethane
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.