

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

Revised: 1.17.11

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

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

Description: 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 set formulas.

Typical Uses:

- Sealing and protecting interior 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 pigmented industrial coatings, 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 Set</u>
• Color – Clear			
• Viscosity @ 77°F (24° C)			
o Part A	500 cps	Tack Free: 5 to 7 hours	3 to 4 hours
o Part B	120 cps	Foot Traffic: 7 to 9 hours	4 to 6 hours
o Mixed	300 cps	All Traffic: 9 to 12 hours	6 to 8 hours
• Pot Life:	20 minutes (standard cure). 15 minutes (Fast Set).	Consistency : Self-Leveling	

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)	Butanol
1%-50% Sodium Hydroxide	Xylene
1%-10% Sulfuric Acid	111 Trichloroethane
1%-10% HCL	Skydrol Fluids

Available Packaging:

- 1.5 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.