

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

Revised: 1.20.16

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

Product Class: A high-build or thin, clear epoxy coating and binder for commercial and industrial applications.

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

Typical Uses:

- Sealing and protecting interior concrete floors.
- Primer for epoxy mortars and cove base.
- Binder or topcoat for broadcast flake or quartz applications.
- Binder for epoxy self-leveling slurry or mortar applications.
- Clear protective top coat for epoxy applications.
- On dry concrete surfaces and polymer modified 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.
- Use in the REFLECTOR™ Enhancer Flooring Systems.
- As a thin textured “orange peel” finish for industrial floors.
- Crack repair, joint repair or surface repair mixes.
- Used in many of the HERMETIC™ Flooring Systems.

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 and FDA Acceptable
- Convenient 2 to 1 ratio by volume

Product Properties: (Material and curing conditions at 73°F (23°C) unless noted, 50% R.H.)

	<u>Standard Cure</u>	<u>Fast Set</u>
• Color – Clear		
• Viscosity @ 73°F (23° C)		
o Part A 500 cps	• Tack Free: 7 to 8 hours	4 to 5 hours
o Part B 120 cps	• Foot Traffic: 9 to 10 hours	5 to 6 hours
o Mixed 300 cps	• All Traffic: + 12 hours	+ 8 hours
• Pot Life: 20 minutes (standard set) 15 minutes (fast set) – Out of the mixing container.	• Consistency: Self-Leveling	

PHYSICAL PROPERTIES

(@73°F (23°C), 7 day ambient cure as a coating)

Compressive Strength	ASTM D 695	12,000 psi
Tensile Strength	ASTM D 638	2,100 psi
Elongation at Break	ASTM D 638	6.1%
Flexural Strength	ASTM D 790	6,500 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	82 (7 days)
Coefficient of Friction	ASTM D 2047	> 0.6
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:

- 1.5 gal. kit
- 3 gal. kit
- 15 gal. kit
- 150 gal. kit

Suggested Storage:

- Store in a temperature and weather controlled area between 65°F (18° C) and 85°F (29°C).
- Do not allow to freeze.
- Shelf Life - 1 year in original unopened containers.