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## TD.462 – TECHNICAL DATA: E100-PT1<sup>™</sup> 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<sup>™</sup> Clear Epoxy is a 100% solids, low viscosity, water clear, non-shrink, two-component epoxy designed for a wide variety of applications. E100-PT1<sup>™</sup> Clear Epoxy will not blush or water spot and has excellent physical and chemical resistant properties. E100-PT1<sup>™</sup> 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.

## **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

- 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<sup>™</sup> Flooring Systems.
- 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.)

						Standard Cure	Fast Set
•		lor – Clear		•	Tack Free:	7 to 8 hours	4 to 5 hours
•	Vis	cosity @ 73°F	<sup>=</sup> (23° C)	•	Foot Traffic:	9 to 10 hours	5 to 6 hours
	0	Part A	500 cps	•	All Traffic:	+ 12 hours	+ 8 hours
	0	Part B	120 cps	•	Consistency:	Self-Leveling	
	0	Mixed	300 cps			0	

 Pot Life: 20 minutes (standard set) 15 minutes (fast set) – Out of the mixing container.

	PHYSICAL PROPERTIE	s					
(@73°F (23°C), 7 day ambient cure as a coating)							
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 ASTM D 2240	0.09%					
Shore D Hardness		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 RESISTANC Splash & Spill Applicatio						
Water (fresh and Salt)	Butanol Xylene						
1%-50% Sodium Hydroxide							
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 (18° C) and 85°F (29°C0.
- Do not allow to freeze.
  - Shelf Life 1 year in original unopened containers.

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the applications they intend to use our products for. Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability of fitness for a particular purpose, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in our event shall we be liable for incidental or consequential damages.