

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

Revised: 6.25.20

**Product Name:** E100-PT1™ Clear Epoxy

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

**Description:** E100-PT1™ Clear Epoxy is 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
- 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
- Suitable for foot and vehicular traffic
- As a clear protective coating for interior flooring, polymer modified concrete overlays, and industrial floors
- Used in REFLECTOR™ Enhancer Flooring Systems
- As a thin textured “orange peel” finish for industrial floors
- Crack repair, joint repair, or surface repair mixes
- Used in HERMETIC™ Flooring Systems

**Key Features:**

- High-gloss, non-blush film
- Near zero 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
- USDA and FDA compliant
- 2 to 1 ratio by volume

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

- |  |   |                        |                             |                        |              |              |              |                 |          |          |                |          |          |
|--|---|------------------------|-----------------------------|------------------------|--------------|--------------|--------------|-----------------|----------|----------|----------------|----------|----------|
| <ul style="list-style-type: none"> <li>• Color: Clear</li> <li>• Viscosity @ 73° F / 23° C                             <ul style="list-style-type: none"> <li>○ Part A: 500 cps</li> <li>○ Part B: 120 cps</li> <li>○ Mixed: 300 cps</li> </ul> </li> <li>• Pot Life: 15 minutes (standard set) 10 minutes (fast set)</li> </ul> | <table border="0"> <tr> <td></td> <td style="text-align: center;"><b><u>Standard Cure</u></b></td> <td style="text-align: center;"><b><u>Fast Set</u></b></td> </tr> <tr> <td>• Tack Free:</td> <td style="text-align: center;">7 to 8 hours</td> <td style="text-align: center;">3 to 4 hours</td> </tr> <tr> <td>• Foot Traffic:</td> <td style="text-align: center;">24 hours</td> <td style="text-align: center;">12 hours</td> </tr> <tr> <td>• All Traffic:</td> <td style="text-align: center;">72 hours</td> <td style="text-align: center;">24 hours</td> </tr> </table> |                        | <b><u>Standard Cure</u></b> | <b><u>Fast Set</u></b> | • Tack Free: | 7 to 8 hours | 3 to 4 hours | • Foot Traffic: | 24 hours | 12 hours | • All Traffic: | 72 hours | 24 hours |
|  | <b><u>Standard Cure</u></b>   | <b><u>Fast Set</u></b> |                             |                        |              |              |              |                 |          |          |                |          |          |
| • Tack Free:   | 7 to 8 hours  | 3 to 4 hours           |                             |                        |              |              |              |                 |          |          |                |          |          |
| • Foot Traffic:  | 24 hours  | 12 hours               |                             |                        |              |              |              |                 |          |          |                |          |          |
| • All Traffic:   | 72 hours  | 24 hours               |                             |                        |              |              |              |                 |          |          |                |          |          |

**Physical Properties:**

@73° F / 23° C, 7-day ambient cure as a coating

Compressive strength	ASTM D695	12,000 psi
Tensile strength	ASTM D638	2,100 psi
Elongation at break	ASTM D638	6.1%
Flexural strength	ASTM D790	6,500 psi
Abrasion resistance CS-17 wheel, 1 kg load	ASTM D4060	30 mg loss
Water absorption (2-hour boil)	ASTM D570	0.09%
Shore D hardness	ASTM D2240	82 (7 days)
Coefficient of friction	ASTM D2047	> 0.6
Heat distortion temperature	ASTM D648	120° F / 49° C
Volatile organic content		0 g/L
Slant shear	ASTM C882	100% concrete failure
Pull-off adhesion	ASTM D7234	450 psi / 3.1 Mpa / concrete failure
Reaction to fire	EN 13501-1	B <sub>FL</sub> – s1

**Chemical Resistance:**

**Splash & Spill Applications**

- |  |   |
|--|---|
| <p><b>Water (fresh and salt)</b><br/> <b>1%-50% Sodium Hydroxide</b><br/> <b>1%-10% Sulfuric Acid</b><br/> <b>1%-10% HCL</b></p> | <p><b>Butanol</b><br/> <b>Xylene</b><br/> <b>111 Trichloroethane</b><br/> <b>Skydrol Fluids</b></p> |
|--|---|

**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.