

TD.463 – TECHNICAL DATA: E100-PT4™ Pigmented Epoxy

Revised: 6/10/21 Version: 1.4

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

Description: E100-PT4™ Pigmented Epoxy is 100% solids, pigmented, non-shrink, two-component epoxy base and top coat system designed for a wide variety of applications. E100-PT4™ Pigmented Epoxy will not blush or water spot, and exhibits excellent physical and chemical resistant properties.

Typical Uses:

- Sealing and protecting concrete
- Broadcast coating for industrial flooring
- Binder for epoxy mortar and slurry coats
- Dry concrete surfaces and concrete overlays
- Concrete surfaces for foot and vehicular traffic
- As a base coat for REFLECTOR™ Enhancer Flooring Systems
- Used in many of the HERMETIC™ Flooring Systems

Key Features:

- High-Gloss, non-blush film
- Near zero odor
- 100% solids (0 VOC's)
- Non-shrink coating
- Self-leveling and air releasing
- Excellent physical, impact, and chemical resistant properties
- Easy to place
- USDA, CFIA, and FDA compliant
- 2 to 1 ratio by volume

Product Properties: Material and curing conditions at 77° F / 24° C unless noted, 50% R.H.

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|---|--|------------------------------|
| • Color: Clear | • Tack Free: <u>Standard Cure</u> 7 to 8 hours | <u>Fast Set</u> 3 to 4 hours |
| • Viscosity @ 77° F / 24° C | • Foot Traffic: 24 hours | 12 hours |
| o Part A: 1800 cP | • All Traffic: 72 hours | 24 hours |
| o Part B: 375 cP | | |
| o Mixed: 950 cP | | |
| • Pot Life: 15 minutes (standard set) 10 minutes (fast set) | | |

Physical Properties:

@77° F / 24° C, 7-day ambient cure

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|--------------------------------|-----------------|--------------------------------------|
| Compressive strength | ASTM D695 | 10,200 psi |
| Tensile strength | ASTM D638 | 3,000, psi |
| Elongation at break | ASTM D638 | 6.00% |
| Flexural strength | ASTM D790 | 4,500 psi |
| Abrasion resistance | | |
| CS-17 wheel, 1 kg load | ASTM D4060 | 20 mg loss |
| Water absorption (2-hour boil) | ASTM D570 | 0.16% |
| Shore D hardness | ASTM D2240 | 76-83 (7 days) |
| 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 13501-1:2018 | B _{FL} – s1 |

Chemical Resistance:

Splash & Spill Applications

See TD.400 for complete chemical resistance chart

Water (fresh and salt)
1%-50% Sodium Hydroxide
1%-75% Sulfuric Acid
1%-10% HCL

Butanol
Xylene
111 Trichloroethane
Skydrol Fluids

Available Packaging:

- 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.

