

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

Revised: 11/7/2023 Version: 1.9

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

**Description:** E100-PT4™-SHD 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™-SHD 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.

- |   |                           |                      |                 |
|---|---------------------------|----------------------|-----------------|
| • Color: Clear  | • Tack Free: 7 to 8 hours | <u>Standard Cure</u> | <u>Fast Set</u> |
| • Viscosity @ 77° F / 24° C                                 | • Foot Traffic: 24 hours  |                      |                 |
| o Part A: 1800 cP   | • All Traffic: 72 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

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 <sub>FL</sub> – s1

**Chemical Resistance:**

**Splash & Spill Applications**

See TD.400 for complete chemical resistance chart

<b>Water (fresh and salt)</b>	<b>Butanol</b>
<b>1%-50% Sodium Hydroxide</b>	<b>Xylene</b>
<b>1%-75% Sulfuric Acid</b>	<b>111 Trichloroethane</b>
<b>1%-10% HCL</b>	<b>Skydrol Fluids</b>

- Shelf Life: 1 year from date of manufacture.

**Available Packaging:**

- 3, 15, and 150 gallon kits

**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.