

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 coats 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.

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|--|---|-----------------|----------------------|-----------------|--------------|--------------|--------------|-----------------|----------|----------|----------------|----------|----------|
| <ul style="list-style-type: none"> • Color: Clear • Viscosity @ 77° F / 24° C <ul style="list-style-type: none"> ○ Part A: 1800 cP ○ Part B: 375 cP ○ Mixed: 950 cP • Pot Life: 15 minutes (standard set) 10 minutes (fast set) | <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Standard Cure</u></td> <td style="text-align: center;"><u>Fast Set</u></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> | | <u>Standard Cure</u> | <u>Fast Set</u> | • Tack Free: | 7 to 8 hours | 3 to 4 hours | • Foot Traffic: | 24 hours | 12 hours | • All Traffic: | 72 hours | 24 hours |
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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 _{FL} – s1

Chemical Resistance:

Splash & Spill Applications

See TD.400 for complete chemical resistance chart

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