

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

Revised: 3/16/2023 Version: 1.7

**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.

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

### 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><br><b>1%-50% Sodium Hydroxide</b><br><b>1%-75% Sulfuric Acid</b><br><b>1%-10% HCL</b> | <b>Butanol</b><br><b>Xylene</b><br><b>111 Trichloroethane</b><br><b>Skydrol Fluids</b> |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|

### 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.
- Shelf Life: 1 year from date of manufacture.