

TD.474 – TECHNICAL DATA: E100-VR4™

Revised: 3/16/2023 Version: 1.5

Product Class: Pigmented epoxy protective coating for commercial and industrial traffic use.

Description:

E100-VR4™ is 100% solids, UV resistant, low viscosity, pigmented, high gloss, two-component epoxy coating, specifically designed for incidental interior UV exposure. Bonds to slightly damp concrete and is not affected by high humidity. Resistant to microbial growth.

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

Features:

- Good chemical resistance
- Excellent UV resistance
- Non-shrink coating
- Will not blush or water spot
- USDA and CFIA compliant
- High-gloss, non-blush film
- 0 VOC's

Viscosity: @ 75° F / 24° C

Part A: 2700 cP

Part B: 80 cP

Mixed: 600-700 cP

Cure: @ 75° F / 24° C

Pot life: 14 minutes

Tack free: 7 to 8 hours

Full traffic: 24+ hours

Mix Ratio: 2 Parts A to 1 Part B by volume

Physical Properties

(@77° F / 25° C, 50% R.H. 7-day ambient cure)

Compressive strength	ASTM D695	11,900 psi
Tensile strength	ASTM D638	2,800 psi
Elongation at break	ASTM D638	3.9%
Flexural strength	ASTM D790	6,200 psi
Abrasion resistance		
CS-17 Wheel, 1 kg load	ASTM 4060	9 mg loss
Water absorption (2-hour boil)	ASTM D570	0.07%
Shore D hardness	ASTM D2240	76-85
Heat distortion temperature	ASTM D648	130° F / 54° C
Volatile organic content (VOC)		0 g/L
Coefficient of friction	ASTM D2047	> 0.6

Chemical Resistance (Splash and Spill)

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

Butanol
Xylene
111 Trichloroethane
Oil
Gasoline

See TD.400 for complete list or contact local Technical Representative.

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 in original unopened containers.