

TD.455 – TECHNICAL DATA: AUS-V™ Aliphatic Urethane Coating

Revised: 3/15/21 Version: 1.3

Product Class: Clear polyurethane protective coating.

Description: AUS-V™ Aliphatic Urethane is a waterborne 75% solids, high performance, two component (with optional third satin component), protective coating that provides exceptional characteristics for abrasion resistance, chemical resistance, and UV stability. Available in gloss (two component), and satin (optional third component). AUS-V™ was engineered to last, perform, and meet all VOC compliancy requirements nationwide and internationally.

Optional specialty liquid pigment can be added for HERMETIC™ Neat Floors. Available in: White, Tan, Light Gray, Medium Gray, Dark Gray, and Black.

Typical Uses:

- Protective top coat for E100 Series Epoxy Coatings
- Protective top coat for REFLECTOR™ Enhancer Flooring Systems
- Protective top coat for many of the HERMETIC™ Flooring Systems
- Residential flooring, living areas, basements, and garage floors
- Commercial flooring, retail, medical, showrooms, food preparation areas, educational, clean rooms
- Industrial flooring, warehouses, auto service centers, aircraft hangars, manufacturing facilities, loading docks

Key Features:

- Extremely low VOC at 25 g/L
- Safe to use indoor. No odor and non-flammable
- 75% solids
- Coverage of 300 to 500 sq. ft. per gallon (application varies)
- More cost effective compared to competitive products
- Excellent strength properties
- Excellent abrasion resistance
- USDA, FDA, and CFIA compliant

Product Properties: (Material and curing conditions at 77° F / 25° C unless noted, 50% R.H.)

- Color: Applies as milky white (dries clear)
- Viscosity @ 77° F / 25° C, 50% R.H.
 - Part A: 50 cps
 - Part B: 600 cps
 - Mixed: 80 cps
- Pot life: 30 minutes
- Light foot traffic: 24 hours
- All traffic (full cure): 72 hours
- Gloss, satin, or matte finish

Physical Properties

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

Solids by volume	75%
Recommended film thickness	2 to 4 mils (wet)
Abrasion resistance CS-17 Wheel, 1 kg load @ 500 cycles	16 mg loss
Impact resistance	Gardner Impact, Direct = 150 in. lb. (passed)
Flexibility	No crack or defects on 1/8" mandrel
Adhesion (applied to E100-PT1™, E100-VR1™, E100-UV1™)	450 psi @ Elcometer (concrete failure)
Volatile organic content	25 g/l
Reaction to fire	EN 13501-1:2018 CFL-s1

Chemical Resistance

Splash & Spill Applications

Water (fresh and salt)	1%-10% acetic acid
1%-10% Sodium Hydroxide	1%-10% HCL
1%-10% Sulfuric Acid	Gasoline

Available Packaging:

- 1.5, 3, and 15-gallon kits.

Suggested Storage:

- Store in a temperature and weather-controlled area between 65° F and 85° F / 18° C and 29° C.
- Do not allow to freeze.
- Shelf Life: 1 year in original unopened containers.

