

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

Revised: 1.25.16

Product Name: AUS-V™ Aliphatic Urethane Coating

Product Class: Clear polyurethane protective coating.

Description: AUS-V™ Aliphatic Urethane is a 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 HEMETIC™ 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:

- High-Gloss or Satin, Non-Blush Film
- 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
- Easy to Place
- USDA Acceptable
- Convenient pre engineered packaging – NOTE: Pre proportioned in prepackaged containers for ease of mixing

Product Properties: (Material and curing conditions at 77°F (24° C) unless noted, 50% R.H.)

- Color – Applies as milky white (dries clear)
- Viscosity @ 77°F (24° C), 50% R.H.
 - o Part A 300 cps
 - o Part B 600 cps
 - o Mixed 500 cps
- Pot Life: 2 to 3 hours
- Tack Free: 8 to 10 hours
- Light Foot Traffic: 10 to 12 hours
- All Traffic (full cure): 24 hours
- Consistency: Subtle smooth “egg shell” texture

PHYSICAL PROPERTIES

(@77°F (24° 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™):	450 psi @ Elcometer (concrete failure)
Volatile Organic Content:	25 g/l (mixed)

**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.
- Larger volume packaging available upon request only as the mix ratio is not typical of most two-component coatings.

Suggested Storage:

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