

# SILPAK, Inc

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## Clear Coat E-108 SP- WC Product Data Sheet

E-108SP WC is a Bisphenol-A epoxy resin and H-499 is a Polyoxypropylene-amine hardener, which can be used in various clear coating applications, i.e., wood, resin, and other surfaces, and in thin cast applications.

**Available Sizes:** Quart Kit Gallon Kit 5 Gallon Kit

- Excellent Impact Resistance
- Low Viscosity
- Excellent Water Resistance
- Water Clear
- Alkali Resistance

**Applications:** E-108SP- WC is a laminating decoupage epoxy with good transparency and low viscosity, which cures to a hard, durable surface. This material has great adhesion to multiple surfaces and easily wets out. Use E-108SP-WC/H-499 system as a coating over polyester clear casted resin to improve a clear finish, encapsulate objects, or to add a protective hard coating to a surface.

### Mix Ratio by Weight:

Base: E-108SP- WC @ 100%

Hardener: H-499 @ 65 % \*\*Ratio by Volume Hardener: 75 % **Caution: Off ratios will not cure properly**

(Hardener: H-2052 @ 47% Clear Amber \*\*Fast/Cold Weather Thin Section Cure < 1 \*Work Time—15min, 4hr Cure)

### Thin Section Cure 1/16"

Pot Life: 20-30 minutes

Cure Time: 18 hours, 50 gram mass 1/16 thick 70F

\*\*Accelerated Cure @150F for 1 hour after allowing material to set for 1 hour at room temperature

### Thick Section Cure (200 grams 3"x2"x2")

Pot Life: 15 minutes

Cure Time: 4 hour cure \*\*Final Cured Properties reached in 72 hours

### **Properties:**

Shore D Hardness: 70D

Viscosity CPS: 1,000 cps - mixed

Color: Transparent

Tensile: 5,000

Shrinkage: Nil

Specific Gravity: 1.12

### **MIXING INSTRUCTIONS:**

Mix epoxy base and hardener by specified ratio as listed above by weight. Mix well by hand or mechanical mixer. Be sure to scrape sides and bottom, then transfer to another container and remix to ensure a thorough mix. For best results, de-air at 29 inches of mercury or pressurize for 5 -10 minutes before pouring. Thick pours may be successful in multiple pours, the first being thin to allow air to flow out. E-108SP-WC will cast with slight yellow tint in sections over 1/4 inch thickness. Transparent dyes are available to color epoxy: red, yellow, blue and black.

### **STORAGE:**

Store at room temperature or below 90F. Keep out of sunlight or away from heat. For cold materials, warm-up materials by a hot water bath (place unmix containers in a plastic bag first and allow 15 minutes for material to absorb heat) prior to mixing. When handling, please refer to MSDS.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST APPLICATION, AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.