

## Product Technical Data Sheet

### ARCOR™ EE-121

REVISED 2/2019.1

**GENERIC TYPE:** AMINE CURED 100% SOLIDS 3.6 NOVOLAC, TOP COAT

**DESCRIPTION AND RECOMMENDED USES:** ARCOR™ EE-121 is a solvent free, high 3.6 functionality epoxy Novolac coating suitable for immersion and non-immersion service. Designed specifically for aggressive chemicals and elevated temperatures versus traditional Epoxy Novolac Resin based coatings. ARCOR™ EE-121 it is designed specifically for use in tough chemical environments especially acids, methanol, ethanol and organic solvents. The integration of Kevlar® fibers produces a tough, highly cross-linked chemical resistant coating with high flexural, thermal, and impact strength as well as excellent wear. Suitable for ferrous and nonferrous metals and concrete for immersion or non-immersion containment.

#### FOR INDUSTRIAL USE ONLY

#### SPECIFICATION DATA

**TEMPERATURE:** Immersion service  
Max. 300°F (149°C); Spike to 450°F (3 Hrs)  
Recommended force cure at 250°F @ 2 hrs.  
Dry to 450°F; Spike to 500°F (3 Hrs)  
Temperature resistance will vary depending on chemical exposure. Consult ARCOR.

#### **CHEMICAL RESISTANCE:**

Water:	Excellent
Alkalis:	Excellent
Inorganic Acids:	Excellent
Organic Acids:	Excellent
Organic Solvents:	Excellent

**ABRASION:** Very Good

**FLEXIBILITY:** Good. Very Good with Polyester or Fiberglass Mat; 1.5 oz/ft<sup>2</sup> (.5 KG/M<sup>2</sup>)

**APPLICATIONS:** Separator Tanks, FGD Duct. Aggressive Chemical Tank Linings and Secondary Containment Areas, Baghouses; Industrial Floorings.

Recommended Force Cure at 250°F (121.1°C) @ 2 hrs. for most aggressive applications.

Product can be force cured in service, consult ARCOR.

**SOLIDS BY VOLUME:** 100%

**VISCOSITY:** 120,000-180,000 cps

**POT LIFE:** 15 MIN/100gr @ 72°F (22.2°C)

**MIX RATIO:** 2:1 by Volume (Base: Activator)  
100 gm: 50 gm by weight

**COLOR:** Blue

**SHELF LIFE:** 5 Years at 55-95°F (13-35°C)

**COVERAGE:** 1604/#mils = ft<sup>2</sup>/gal/coat;  
149/#mils = M<sup>2</sup>/Gal; 3,785/#microns = M<sup>2</sup>/Gal  
1mil = 25 micron; 1 Gal = 3.785 L; 10.77ft<sup>2</sup> = M<sup>2</sup>

**WEIGHT PER GALLON:** 10.7 lbs. (4.9 KG)  
2.8 lbs. (1.3 KG)/Liter

#### **FILM THICKNESS:**

**Spray Application;** 1-Coat 30 to 70 mils

**Hand Application;** 2-3 Coats 20-25 mils per coat

**Final DFT Specified by Need;** Consult ARCOR

**ORDER INFORMATION:** To place orders and/or obtain pricing information contact:

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## Application Sheet

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**SEE MATERIAL SAFETY DATA SHEET (SDS) BEFORE HANDLING THIS PRODUCT;**

download @ [www.ArcorEpoxy.com](http://www.ArcorEpoxy.com); ChemTel ERS / MOD Tel US: 800-255-3924; Outside US: +001-813-248-0585

#### **SURFACE PREPARATION:**

Steel surfaces are to be abrasive blasted with chloride free abrasive. Exterior applications to SSPC SP-10 Near White metal finish. Immersion applications to SSPC SP-5 White metal 5+ mil profile. Grind flat all burrs, weld seams, radius sharp edges. Fresh blasted ferrous surfaces to be primed immediately to prevent oxidation of surface. For hand application Prime with EE-121 Prime.

Concrete surfaces should be degreased if oil and grease contamination is present. Degreased surface shall be high pressure washed, acid etched, and high pressure washed again so surface is clean and free of all grease, oils and surface laitance. Existing coatings should be abrasive blasted to clean concrete. Prime with EE-10.

#### **MIXING:**

Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by Volume 2-parts Base to 1-part Activator. Or by weight 100 grams Base to 50 grams Activator. Mix thoroughly to produce an even colored and streak-free material.

**THINNING:** Never thin.

#### **APPLICATION:**

Brush: medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating. Trim or tape to <1" nap.

Roller: good quality 1/8" nap.

ARCOR Cartridge Sprayer: Heat to 165F(74C). Piston '3'; Tip Air '4'.

Plural Spray: .039-.045 tip, 3,000-4,500 PSI, Heat to 210°F Base, 140°F Activator. Ambient Temperature and Humidity will affect temperature and pressure setting. Consult ARCOR.

Airless Spray: Contact ARCOR.

All spray equipment should employ traps to prevent water and oil from contaminating coating and screens to prevent particulate contamination.

#### **APPLICATION TEMPERATURE:**

Material: Keep between 55 to 95°F(17 to 35°C). Substrate: Keep between 45 to 105°F(7 to 40°C). The difference in temperature of the substrate and the material should never exceed 10°F(5°C). Substrate shall be a minimum of 5°F(3°C) above dew point.

Do not apply if relative humidity exceeds 90%. If necessary heat metal prior to surface preparation using electric heater or heat lamp. Never use gas, oil or kerosene heaters as they will leave a greasy residue on metal surface. For best results keep all material in warm area overnight(75°F+, 24°C) for ease of mixing. If necessary base component of material can be heated by microwave for 30-45 seconds for a 1 KG Base unit or by warm water bath. Heat activator by warm water bath only. If necessary let material cool before application.

#### **OVERCOAT / CURE TIME:**

By brush, roller or squeegee recoat while material is still soft, but tack-free, between 1-3 hours at 77°F(25°C). **IMPORTANT:** It is highly recommended that prior to overcoat that the prior coat be fully wiped with MEK or Acetone. If overcoat window is exceeded abrade surface with course sandpaper, grinder or brush blast and wipe with MEK or Acetone. By spray application recoat between 1/2-1 hours at 77°F(25°C). Full cure before immersion 72 hours at 77°F(25°C). Add 1 hour's additional cure time for each 10°F(-12.2°C) below 77°F(25°C). Required Force Cure with heat for best performance for 2 hours at 175°F(121°C)/ 300°F(148.9°C) for 3 hours.

**CLEAN UP:** Clean tools immediately after use with M.E.K., Acetone or similar. ARCLEAN or 98+% Isopropyl Alcohol can be used in solvent restricted areas

**WARNING:** Base contains epoxy resin. Activator contains alkaline amines, a strong sensitizer. May cause skin irritation, sensitization or other allergic responses. Use with good ventilation, particularly if heated or sprayed. Prevent all contact with skin or eyes. Wear protective clothing, goggles, gloves or barrier creams. Keep containers closed when not in use. Wash thoroughly after handling. In case of skin contact immediately wash with soap and water. In case of eye contact, flush with water for 15 minutes. If irritation persists seek medical attention. Consult the Product Safety Data Sheets (SDS) BEFORE USE!

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