



AEPON POLYAMIDE EPOXY C-00 SERIES

DESCRIPTION:

A two component coating formulated completely from pure epoxy resins, with no added diluents, for a superior coating performance. Aepon Epoxy is corrosion, chemical and abrasion resistant and is flexible.

FINISH:

Gloss, Semi-Gloss, Flat

USES:

Machinery	Steel	Maintenance	Marine Environment	Aluminum
Concrete	Iron	Concrete Floors	Water Immersion	Swimming Pools
Fiberglass	Wood	Equipment	Galvanized Metals	Spas

Ferrous substrates in a saltwater environment.

FILM PROPERTIES:

Air Dry Time 6 to 12 Hours at 77°F
Re-coat Time 4 to 12 Hours at 77°F
Complete Cure 7 Days
Times may vary depending on temperature and humidity.

BAKE SCHEDULE:

Flash dry for 15 minutes before baking.
150°F For 60 Minutes
200°F For 45 Minutes
250°F For 30 Minutes

APPLICATION:

375 Square Feet per Gallon at 2 Mils
250 Square Feet per Gallon at 3 Mils
Apply with a brush, spray or roller.
Sandblast to white metal or wire brush and treat with Alphas 40.

MIXING RATIO AND POT LIFE:

3 Parts Aepon to 1 part catalyst. After adding the catalyst to the Aepon Epoxy base, mix thoroughly and allow to set for 1 hour before using and thinning. After adding the catalyst and inducting for one hour, the pot life is approximately 8 hours at 77°F.

THINNING AND CLEANUP:

S-02 Aepon Reducer



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Aepon is a high performance, two-component epoxy, which affords long term protection in the aggressive atmospheres encountered in offshore and industrial applications. Aepon Epoxy is used as a specification standard for NASA flight items, exceeds military specification MIL-P-24441 and American Water Works Association Standard AWWA D10278 (section 3.2 I.P.S. #1).

PROPERTIES OF PHYSICAL DATA:

Gloss	92 (C-005)
Adhesion	300 lbs./inch
Impact Resistance, Inch lbs. Pass/Fail	
Direct	165/168
Pencil Hardness	4H
Flexibility, Cylindrical Mandrel	
1/8"	Pass
Water Immersion, 100°F, 200 Hours	
Rusting	No Effect
Blistering	No Effect
Salt Spray, (ASTM B117-73) 250 Hours	
Rusting	None
Undercutting	Very Slight
Blistering	None
Temperature Limits	
Continuous	200°F
Intermittent	260°F

GENERAL APPLICATION INFORMATION:

Aepon Epoxy is self-priming to cement, metal, aluminum and galvanized metal. Dependent on the end use, Aepon Epoxy Zinc Rich Primer is recommended for extremely aggressive atmospheres and VPP-702 is recommended for aluminum and galvanized metal, for the best durability.

Dry Time (ASTM D1640)	
To Touch	2 Hours at 77°F
Dry Through	14 Hours at 77°F
Application Temperature	Not Below 50°F
Film Thickness (Two Coats Recommended)	2 – 15 Mils.

CHEMICAL RESISTANCE:

<u>MEDIUM</u>	<u>SPLASH</u>	<u>FUMES</u>
Water	Excellent	Excellent
Acids	Fair	Good
Alkaline	Excellent	Excellent
Solvents	Excellent	Excellent

Aepon Epoxy
Chemical Resistance Properties

<u>Medium</u>	<u>Coating</u> <u>Resistance</u>	<u>Medium</u>	<u>Coating</u> <u>Resistance</u>
ACIDS			
Acetic acid, 5%	LR	Chromic acid, 40%	NR
Acetic acid, 20%	NR	Hydrogen peroxide, 30%	NR
Acetic acid, 50%	NR	Sodium hypochlorite, 5%	LR
Acetic acid, glacial	NR	Sulfur dioxide solutions,	R
Citric acid, 10%	R	SALT SOLUTIONS	
Hydrochloric acid, 10%	R	Alum	R
Hydrochloric acid, 20%	LR	Ammonium salts	R
Hydrochloric acid, 36%	LR	Calcium chloride	R
Hydrochloric acid, vapor	LR	Copper sulfate	R
Hydrofluoric, 10%	NR	Ferrous sulfate	R
Lactic acid	R	Sodium acetate	R
Linseed acid	R	Sodium carbonate	R
Nitric acid, 5%	LR	Sodium chloride	R
Nitric acid, 20%	NR	Sodium phosphate	R
Nitric acid, 30%	NR	Sodium sulfate	R
Nitric acid, concentrated	NR	SOLVENTS	
Oleic acid	R	Acetone	LR
Phosphoric acid, 10%	R	Aviation gasoline	R
Phosphoric acid, 85%	NR	Butyl alcohol	R
Sulfuric acid, 10%	R	Carbon tetrachloride	R
Sulfuric acid, 25%	LR	Esters	LR
Sulfuric acid, 50%	NR	Esthers	R
Sulfuric acid, 70%	NR	Ethyl alcohol	R
Sulfuric acid, 80%	NR	Ethyl amyl ketone	LR
Sulfuric acid, 90%	NR	Jet fuel	R
Sulfuric acid, concentrated	NR	Methylene chloride	NR
Tall oil fatty acids	R	Methyl alcohol	R
ALKALIES			
Ammonium hydroxide, dilute	R	Methyl ethyl ketone	LR
Ammonium hydroxide, concentrated	NR	Methyl isobutyl carbinol	LR
Calcium hydroxide	R	Mineral spirits	LR
Sodium hydroxide, dilute	R	Phenol	NR
Sodium hydroxide, concentrated	R	Secondary butyl alcohol	R
FATS & OILS			
Animal	R	Toluene	R
Petroleum	R	Xylene	R
Vegetable	R	WATER	
GASES			
Ammonia	LR	Distilled	R
Carbon dioxide	R	Sea	R
Hydrogen sulfide	R	Tap	R
Sulfur dioxide	LR	MISCELLANEOUS	
HALOGENS			
Bromine	NR	Allyl chloride	R
Chlorine	NR	Detergent solution	R
Iodine	NR	Diethylenetriamine	NR
OXIDIZING AGENTS			
Calcium hypochlorite, 5%	LR	Ethylene dichloride	NR
Chlorine water	R	Formaldehyde, 37%	R
Chromic acid, 5%	NR	Glycerine	R
		Sodium chlorate	NR
		Sodium chlorite, 25%	R
		Sodium methoxide, 40%	R
		Sour Crude Oil	R
		Styrene	LR

R- Resistant

LR- Limited Resistance

NR- Not Resistant