

ACC EP AEP EPI Engineered Polymers

Category : Polymer , Thermoset , Epoxy

Material Notes:

EP AEP is a new generation of Internetwork Polymers of polyurea and Epoxy, "Powered by Reactamine® Technology". EP AEP was developed for a colorfast floor for both residential and industrial applications. Gel times are fast, around 15 minutes, and a tack free floor can be as fast as 45 minutes. A Broadcast or Trowl down floor can be easily made using EP AEP. EP AEP requires no primer and acts as its own top coat. EP AEP meet USDA and FDA indirect food contact. EP AEP is also available in antimicrobial formulas. Applications AIRCRAFT HANGAR FLOORS LOW TEMPERATURE FREEZERS MAINTENANCE FACILITIES FLOORS REQUIRING UV STABILITY UV-STABLE TOP COAT INDUSTRIAL SHOP FLOORS NON-CONDUCTIVE FLOORING FOOD PROCESSING FACILITIES Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-EP-AEP-EPI-Engineered-Polymers.php

Physical Properties	Metric	English	Comments
Viscosity	1100 cP	1100 cP	A Side
	@Temperature 75.0 °C	@Temperature 167 °F	
	1575 cP	1575 cP	B Side
	@Temperature 75.0 °C	@Temperature 167 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM 2240
Tensile Strength, Yield	24.8 MPa	3590 psi	ASTM D412
Elongation at Break	200 %	200 %	ASTM D412
Adhesive Bond Strength	>= 1.72 MPa	>= 250 psi	Wood (no primer), Delamination; ASTM D4541 Elcometer
	>= 2.07 MPa	>= 300 psi	Concrete (no primer) Concrete Failure; ASTM D4541 Elcometer
	>= 2.07 MPa	>= 300 psi	Concrete (primer), Concrete Failure; ASTM D4541 Elcometer
	>= 2.07 MPa	>= 300 psi	Concrete (epoxy), Concrete Failure; ASTM D4541 Elcometer
	>= 6.21 MPa	>= 900 psi	Steel (no primer), Substrate Failure; ASTM D4541 Elcometer
	>= 10.3 MPa	>= 1500 psi	Steel (epoxy primer), Primer Failure; ASTM D4541 Elcometer
Tear Strength	78.9 kN/m	450 pli	ASTM D412
	45	45	CS17 WHEEL, 1kg per 1000 cycles;

Taber Abrasion, mg/1000 Cycles Mechanical Properties	Metric	English	ASTM D4060 Comments
Thermal Properties	Metric	English	Comments
Flash Point	>= 93.3 °C	>= 200 °F	ASTM Pensky-Martin

Processing Properties	Metric	English	Comments
Cure Time	>= 45.0 min	>= 0.750 hour	Tack Free Time
Pot Life	15 min	15 min	

Descriptive Properties	Value	Comments
Color	All primary colors.	
Flexibility	Pass	ASTM D1737, 1/8" Mandrel
Resistance to 1,1,1-Trichlorethane	Conditional	
Resistance to Acetic Acid (100%)	Conditional	
Resistance to Acetone	Conditional	
Resistance to Ammonium Hydroxide (50%)	Recommended Conditional	
Resistance to Benzene	Conditional	
Resistance to Brine-Saturated H ₂ O	Recommended	Resistance to Brine-Saturated H ₂ O (310g/l)
Resistance to Chlorinated H ₂ O	Recommended	
Resistance to Clorox® (10%) H ₂ O	Recommended	
Resistance to Diesel Fuel	Recommended Conditional	
Resistance to Gasoline	Recommended Conditional	
Resistance to Gasoline/ 5% Methanol	Recommended Conditional	
Resistance to Gasoline/5% MTBE	Recommended Conditional	
Resistance to H ₂ O	Recommended	
Resistance to H ₂ O (14 days at 82°C)	Recommended Conditional	
Resistance to Hydraulic Fluid (oil)	Recommended Conditional	
Resistance to Hydrochloric Acid (20%)	Recommended	
Resistance to Hydrofluoric Acid(10%)	Not Recommended	
Resistance to Isopropyl Alcohol	Recommended	

Descriptive Properties	Value	Comments
Resistance to Lactic Acid	Recommended Conditional	
Resistance to MEK	Recommended Conditional	
Resistance to Methanol	Recommended	
Resistance to Methylene chloride	Conditional	
Resistance to Mineral Spirits	Recommended Conditional	
Resistance to Motor Oil	Recommended	
Resistance to MTEB	Conditional	
Resistance to Muriatic Acid (10%)	Recommended	
Resistance to NaCl/H2O (10%)	Recommended	
Resistance to Nitric Acid (20%)	Not Recommended	
Resistance to Phosphoric Acid (10%)	Recommended	
Resistance to Phosphoric Acid (50%)	Not Recommended	
Resistance to Potassium Hydroxide (10%)	Recommended	
Resistance to Potassium Hydroxide (20%)	Recommended, Discoloration	
Resistance to Propylene Carbonate	Recommended Conditional	
Resistance to Skydrol®	Conditional	
Resistance to Sodium Bicarbonate	Recommended	
Resistance to Sodium Hydroxide (25%)	Recommended	
Resistance to Sodium Hydroxide (50%)	Recommended, Discoloration	
Resistance to Sodium Hypochlorite (10%)	Recommended	
Resistance to Stearic Acid	Recommended	
Resistance to Sugar/H2O	Recommended	
Resistance to Sulfuric Acid (>50%)	Recommended Conditional	
Resistance to Sulfuric Acid (10%)	Recommended	
Resistance to Toluene	Recommended	
Resistance to Trisodium Phosphate	Recommended	
Resistance to Vinegar/ H2O (5%)	Recommended	

Resistance to Xylene
Descriptive Properties

Recommended Conditional
Value

Comments

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