ACC EP RAP 60 EPI Engineered Polymers Aliphatic Polyurea

Category : Polymer , Thermoset

Material Notes:

EP RAP 60 Aliphatic Polyurea, "Powered by Reactamine® Technology", is a two component 100% solids, no VOC, coating (silicone optional) developed for UV stable (colorfast) polyurea flooring applications. This new generation polyurea displays fast cure times and excellent adhesion characteristics. EP RAP 60 was designed to be quick gelling (30 minutes) in order to optimize leveling and wetting properties. EP RAP 60 can be spray applied at temperatures ranging from 20ºF to 120ºF. This 100% polyurea elastomer displays excellent chemical resistance, water insensitivity and UV resistance (in any color) at a wide range of temperatures. EP RAP 60 will provide a smooth glossy finish when fully cured. An aggregate can be broadcast into this self-leveling material to provide a non-skid surface. EP RAP 60 emits virtually no odors and can be applied indoors without high VOC levels contributed to most epoxies and polyurethanes. EP RAP 60 meets to USDA and FDA specifications. Applications: BRIDGE COATINGS AIRCRAFT HANGAR FLOORS LOW TEMPERATURE EQUIPMENT MAINTENANCE FACILITIES FLOORS REQUIRING UV STABILITY UV-STABLE TOP COAT INDUSTRIAL SHOP FLOORS NON-CONDUCTIVE FLOORINGPart of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ACC-EP-RAP-60-EPI-Engineered-Polymers-Aliphatic-Polyurea.php

Physical Properties	Metric	English	Comments
Viscosity	300 cP @Temperature 75.0 °C	300 cP @Temperature 167 °F	A Side
	575 cP @Temperature 75.0 °C	575 cP @Temperature 167 °F	B Side

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM 2240
Tensile Strength, Yield	35.2 MPa	5110 psi	ASTM D412
Elongation at Break	140 %	140 %	ASTM D412
Adhesive Bond Strength	>= 1.72 MPa	>= 250 psi	Wood (no primer), Delamination; 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
	>= 2.07 MPa	>= 300 psi	Concrete (no primer), 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

Mechanical Properties	Metric	English	Comments
Tear Strength	87.7 kN/m	500 pli	ASTM D412
Taber Abrasion, mg/1000 Cycles	65	65	CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Flash Point	>= 93.3 °C	>= 200 °F	ASTM Pensky-Martin

Processing Properties	Metric	English	Comments
Cure Time	>= 60.0 min @Temperature 75.0 °C	>= 1.00 hour @Temperature 167 °F	tack free
Gel Time	30.0 min	30.0 min	75°C

Descriptive Properties	Value	Comments
Color	All primary colors.	
Flexibility	Fail	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 H2O	Recommended	Resistance to Brine-Saturated H₂O (310g/l)
Resistance to Chlorinated H2O	Recommended	
Resistance to Clorox® (10%) H2O	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 H2O	Recommended	
Resistance to H2O (14 days at 82°C)	Recommended Conditional	
Resistance to Hydraulic Fluid (oil)	Recommended Conditional	

Descriptive Properties	Value	Comments
Resistance to Hydrofluoric Acid(10%)	Not Recommended	
Resistance to Isopropyl Alcohol	Recommended	
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	

Descriptive Properties	Value	Comments
Resistance to Trisodium Phosphate	Recommended	
Resistance to Vinegar/ H2O (5%)	Recommended	
Resistance to Xylene	Recommended Conditional	

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