

ACC EP RAP-1567 EPI Engineered Polymers Aliphatic Polyurea

Category : Polymer , Thermoset

Material Notes:

RAP-1567 HX is a two component 100% solids, no VOC's, aliphatic polyureas "Powered by ReactAmine® Technology" that was developed for UV stable (colorfast) polyurea applications. This new generation polyurea displays fast cure times and excellent adhesion characteristics. RAP-1567 HX is designed to be quick gelling (30 minutes) in order to optimize leveling and wetting properties. RAP-1567 HX can be spray applied at temperatures ranging from 20°F to 120°F. This 100% polyurea elastomer displays excellent chemical resistance, water insensitivity and UV resistance (in any color) at a wide range of temperatures. RAP-1567 HX will provide a smooth glossy finish when fully cured. RAP-1567 HX emits virtually no odors and can be applied indoors without any VOC's. RAP-1567 HX meets USDA and FDA specifications. RAP-1567 HX can be rolled, brushed, or spray applied thru airless or plural equipment. Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-EP-RAP-1567-EPI-Engineered-Polymers-Aliphatic-Polyurea.php

Physical Properties	Metric	English	Comments
Viscosity	200 cP	200 cP	A Side
	550 cP	550 cP	B Side

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	ASTM 2240
Tensile Strength, Yield	15.9 MPa	2300 psi	ASTM D412
Elongation at Break	300 %	300 %	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
Tear Strength	53.5 kN/m	305 pli	ASTM D412
Taber Abrasion, mg/1000 Cycles	40	40	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	>= 30.0 min @Temperature 75.0 °C	>= 0.500 hour @Temperature 167 °F	tack free
Pot Life	40.0 min @Temperature 75.0 °C	40.0 min @Temperature 167 °F	

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 Descriptive Properties	Recommended 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	

Descriptive Properties	Value	Recommended Conditional	Comments
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