ACC SMP™ EP EF SP EPI Engineered Polymers Extra Flex with Silicone

Category : Polymer , Thermoset , Silicone

Material Notes:

EP EF SP, "Powered by Reactamine® Technology", is a two component 100% solid Silicone Polyurea with superior performance in industrial applications. EP EF SP displays extremely fast cure times with excellent adhesions to different substrates. EP EF SP can be spray applied at temperatures ranging from 20°F to 150°F. EP EF SP has better chemical and water resistance than conventional. EP EF SP has a temperature range of -60°F to 250°F. EP EF SP conforms to USDA and FDA guidelines for incidental food contact. Silicone Polyureas have better weatherability. Applications: EP EF SP adheres well to several substrates including concrete, steel, and wood. Some typical uses include: SECONDARY CONTAINMENT WASTEWATER LAGOON AND POOL LININGS TABLE EDGING COLD STORAGE AREAS WASH BAY AND SHOWER LININGS COOLING TOWERS PETROCHEMICAL REFINERIES OILFIELD PIPELINE COATINGS WATER PROOFING SEWER LINERS MANHOLE RESTORATION INDUSTRIAL FLOORING BRIDGE COATINGSPart of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ACC-SMP-EP-EF-SP-EPI-Engineered-Polymers-Extra-Flex-with-Silicone.php

Physical Properties	Metric	English	Comments
Viscosity	600 cP	600 cP	B Side
	800 cP	800 cP	A Side

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	ASTM D2240
Tensile Strength, Yield	9.136 MPa	1325 psi	ASTM D412
Elongation at Break	950 %	950 %	ASTM D412
100% Modulus	0.00889 GPa	1.29 ksi	ASTM D412
300% Modulus	0.0110 GPa	1.59 ksi	ASTM D412
Adhesive Bond Strength	>= 1.72 MPa	>= 250 psi	Wood (no primer), Delamination; ASTM D4541 Elcometer
	2.07 MPa	300 psi	Concrete (epoxy), Concrete Failure; ASTM D4541 Elcometer
	2.76 MPa	400 psi	Concrete (no primer), Concrete Failure; ASTM D4541 Elcometer
	>= 6.21 MPa	>= 900 psi	Steel (epoxy primer), Primer Failure; ASTM D4541 Elcometer
	>= 10.3 MPa	>= 1500 psi	Steel (no primer), Substrate Failure; ASTM D4541 Elcometer
Tear Strength	80.6 kN/m	460 pli	ASTM D412
Taber Abrasion, mg/1000 Cycles	22	22	CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

Mechanical Properties	Metric	English	Comments

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

Processing Properties	Metric	English	Comments
Cure Time	0.267 - 0.583 min	0.00444 - 0.00972 hour	Tack Free Time
Gel Time	0.150 min	0.150 min	Fast
	0.3667 min	0.3667 min	Slow

Descriptive Properties	Value	Comments
Color	Most primary colors, including white.	
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 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	
Resistance to Hydrochloric Acid (20%)	Recommended	

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 Vinegar/ H2O (5%)	Recommended	
Resistance to Xylene	Recommended Conditional	

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