ACC EP QS EPI Engineered Polymers Quick Set Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

EP QS Quick Set Epoxy, "Powered by Reactamine® Technology", is a two component 100% solids, no VOC, self-leveling modified epoxy. This versatile new generation epoxy displays low blush, fast cure times, and excellent adhesion characteristics. EP QS can be used as a surface tolerant primer or as a final coat, and will cure in a variety of harsh situations including high humidity. EP QS can be applied at temperatures ranging from 40° F to 120° F. This environmentally friendly epoxy displays excellent chemical resistance, water insensitivity, and UV resistance. EP QS will provide a glossy smooth finish when fully cured. Aggregate can be broadcast into this self-leveling material to provide a non-skid surface. EP QS emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels found in most epoxies and polyurethanes.ApplicationsEP QS adheres well to several substrates including concrete, steel, and wood. Some typical uses include: CHEMICAL RESISTANT SECONDARY CONTAINMENT OFFSHORE PLATFORMS MAINTENANCE FACILITIES PRIMER FOR MOST POLYUREAS/POLYURETHANES USDA AND FDA ACCEPTABLE COATING INDUSTRIAL FLOORING TANK COATINGPart of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ACC-EP-QS-EPI-Engineered-Polymers-Quick-Set-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	100 cP	100 cP	Hardener
	1500 cP	1500 cP	Resin

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	61.23 MPa	8881 psi	ASTM D638
Elongation at Break	28 %	28 %	ASTM D638
Flexural Strength	87.370 MPa	12672 psi	ASTM D790
Flexural Modulus	3.34 GPa	485 ksi	ASTM D638
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
	>= 10.3 MPa	>= 1500 psi	Steel (no primer), Substrate Failure; ASTM D4541 Elcometer
Izod Impact, Notched	3.74 J/cm	7.00 ft-lb/in	ASTM D628
Taber Abrasion, mg/1000 Cycles	80	80	CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	63.0 °C	145 °F	ASTM D648
Flash Point	>= 93.3 °C	>= 200 °F	ASTM Pensky-Martin

Processing Properties	Metric	English	Comments
Cure Time	>= 150 min @Temperature 75.0 °C	>= 2.50 hour @Temperature 167 °F	tack free
Gel Time	20.0 min	20.0 min	75°C

Descriptive Properties	Value	Comments
Color	Light Gray, Dark Gray	
Resistance to Acetic Acid (100%)	Recommended	
Resistance to Acetone	Recommended	
Resistance to Ammonium Hydroxide (50%)	Recommended	
Resistance to Brake Fluid (310g/l)	Recommended	
Resistance to Brine-Saturated H2O	Recommended	Resistance to Brine-Saturated H₂O (310g/l)
Resistance to Gasoline	Recommended	
Resistance to H2O	Recommended	
Resistance to Hydrochloric Acid (50%)	Recommended	
Resistance to MEK	Recommended	
Resistance to Methanol	Recommended	
Resistance to Muriatic Acid (10%)	Recommended	
Resistance to NaCl/H2O (10%)	Recommended	
Resistance to Nitric Acid (20%)	Recommended Conditional	
Resistance to Potassium Hydroxide (10%)	Recommended	
Resistance to Potassium Hydroxide (20%)	Recommended, Discoloration	
Resistance to Sodium Bicarbonate	Recommended	
Resistance to Sodium Hydroxide (50%)	Recommended, Discoloration	

Descriptive Properties	Value	Comments
Resistance to Sodium Hypochlorite (10%)	Recommended	
Resistance to Sugar/H2O	Recommended	
Resistance to Sulfuric Acid (>50%)	Recommended	
Resistance to Sulfuric Acid (10%)	Recommended	
Resistance to Toluene	Contact EPI	
Resistance to Xylene	Recommended Conditional	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China