ACC EP QSZ EPI Engineered Polymers Quick Set Epoxy with Zinc

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

EP QSZ Quick Set Epoxy with Zinc, "Powered by Reactamine® Technology", is a two component 100% solids, no VOC's (Volatile Organic Compound), self-leveling modified epoxy. This versatile new generation epoxy displays low blush, fast cure times, and excellent adhesion characteristics. EP QSZ 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 QSZ 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 QSZ 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 QSZ emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels found in most epoxies and polyurethanes. Applications EP QSZ 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 COATING ANTI-CORROSIVE FOR STEELPart of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-EP-QSZ-EPI-Engineered-Polymers-Quick-Set-Epoxy-with-Zinc.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
Taber Abrasion, mg/1000 Cycles	80	80	CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

 Thermal Properties
 Metric
 English
 Comments

SONGHAN Plastic Technology Co., Ltd.

www.lookpolymers.com email : sales@lookpolymers.com

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

Processing Properties	Metric	English	Comments
Cure Time	>= 150 min	>= 2.50 hour	to all free
	@Temperature 75.0 °C	@Temperature 167 °F	tack free
Gel Time	20.0 - 25.0 min	20.0 - 25.0 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 H ₂ 0 (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	
Resistance to Sodium Hypochlorite (10%)	Recommended	
Resistance to Sugar/H2O	Recommended	



Descriptive Properties Adid (>50%)	Valuenmended Conditional	Comments
Resistance to Sulfuric Acid (10%)	Recommended	
Resistance to Toluene	Recommended	
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