ACC EP JS EPI Engineered Polymers Joint Sealant

Category : Polymer , Thermoset

Material Notes:

EP JS Joint Sealant JS, "Powered by Reactamine® Technology" is a two component 100% solid (silicone optional) polyurea based joint sealant. EP JS is a self-leveling joint sealant designed to protect interior horizontal concrete expansion and control joints from spalling, chipping, and breakdown. This elastomer displays fast cure times and excellent adhesion to concrete. EP JS can be applied at temperatures ranging -30° F to 350°F. This polyurea elastomer displays excellent chemical resistance, water insensitivity, and thermal stability at high and low temperatures. EP JS may also be used under traditional floor coatings (such as epoxies, polyureas and polyurethanes) or tiles to smooth the joints and provide protection from cracking and sinking caused by non-elastomeric joint sealants. Applications:EP JS was designed to protect against the abuse to concrete joints caused by heavy load transfers from such items as forklifts, steel-wheeled carts and trash dumpsters. Some typical uses include: Concrete Control / Expansion Joints Concrete Spall Repairs Cold Storage Facilities Merchandise Distribution Centers Home Improvement Stores Bridge Headers Warehouse Floors D.O.T. Pothole Road Repair U.S.D.A. and F.D.A. AcceptablePart of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ACC-EP-JS-EPI-Engineered-Polymers-Joint-Sealant.php

Physical Properties	Metric	English	Comments
Viscosity	0.12 cP	0.12 cP	1:1, Side B
	0.18 cP	0.18 cP	1:1, Side A
	400 cP	400 cP	2:1, A Side
	1200 cP	1200 cP	2:1, B Side

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	1:1; ASTM D2240
	95	95	2:1; ASTM D2240
Tensile Strength, Yield	10.3 MPa	1500 psi	1:1; ASTM D412
	20.3 MPa	2950 psi	2:1; ASTM D412
Elongation at Break	350 %	350 %	2:1; ASTM D412
	800 %	800 %	1:1; ASTM D412
100% Modulus	0.00965 GPa	1.40 ksi	1:1; ASTM D412
	0.0112 GPa	1.62 ksi	2:1; ASTM D412
Adhesive Bond Strength	>= 2.76 MPa	>= 400 psi	Concrete (no primer), Concrete Failure; ASTM D4541 Elcometer
Tear Strength	78.9 kN/m	450 pli	1:1; ASTM D412

Mechanical Properties	Metric	English	Comments
	87.7 kN/m	500 pli	2:1, ASTM D412
Taber Abrasion, mg/1000 Cycles	20.5	20.5	1:1 CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060
	25	25	2:1 CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
Flash Point	>= 93.3 °C	>= 200 °F	2:1 and 1:1, ASTM Pensky-Martin

Processing Properties	Metric	English	Comments
Cure Time	>= 5.00 min	>= 0.0833 hour	Tack Free Time, 2:1
	>= 10.0 min	>= 0.167 hour	Tack Free Time, 1:1
Gel Time	2.00 min	2.00 min	2:1
	5.00 min	5.00 min	1:1

Descriptive Properties	Value	Comments
Color	Black, Gray	
Flexibility	Pass	2:1 and 1:1, ASTM D1737, 1/8"Mandrel
Resistance to Acetic Acid (100%)	Recommended	
Resistance to Clorox® (10%) H2O	Conditional, Discoloration	
Resistance to Diesel Fuel	Recommended	
Resistance to Gasoline	Recommended	
Resistance to H2O	Recommended	
Resistance to Hydraulic Fluid (oil)	Recommended, Discoloration	
Resistance to Hydrochloric Acid (20%)	Recommended	
Resistance to Hydrofluoric Acid(10%)	Recommended, Discoloration	
Resistance to Mineral Spirits	Recommended	
Resistance to Motor Oil	Recommended, Discoloration	
Resistance to Muriatic Acid (10%)	Recommended	
Resistance to NaCl/H2O (10%)	Recommended	
Resistance to Potassium Hydroxide (10%)	Recommended	

Descriptive Properties	Value	Comments
Resistance to Sodium Bicarbonate	Recommended	
Resistance to Sodium Hydroxide (10%)	Recommended	
Resistance to Sugar/H2O	Recommended	
Resistance to Sulfuric Acid (>22%)	Not Recommended	
Resistance to Sulfuric Acid (10%)	Recommended, Discoloration	
Resistance to Vinegar/ H2O (5%)	Recommended	
Resistance to Xylene	Conditional	

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