

ACC SMP™ EP 3001 EPI Engineered Polymers Silicone Modified Polymer

Category : Polymer , Thermoset , Silicone

Material Notes:

EP 3001, "Powered by Reactamine® Technology", is a two component 100% solid polyurea based sealant. EP 3001 is a self-leveling sealant designed to protect horizontal concrete. This elastomer displays fast cure times and excellent adhesion to concrete. EP-3001 can be applied at temperatures ranging 30° F to 120°F. This elastomer displays excellent chemical resistance and water insensitivity. EP-3001 may also be used under traditional floor coatings (such as epoxies, polyureas and polyurethanes) or tiles to provide protection from cracking and sinking caused by non-elastomeric sealants. Applications: EP 3001 was designed to protect against the abuse to concrete caused by heavy load transfers from such items as forklifts, steel-wheeled carts and trash dumpsters. Some typical uses include: Concrete Water Proofing Concrete Spall Repairs Cold Storage Facilities Merchandise Distribution Centers Home Improvement Stores Bridge Headers Warehouse Floors U.S.D.A. and F.D.A. Acceptable Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-SMP-EP-3001-EPI-Engineered-Polymers-Silicone-Modified-Polymer.php

Physical Properties	Metric	English	Comments
Viscosity	1200 cP	1200 cP	B Side
	1800 cP	1800 cP	A Side

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D412
Elongation at Break	800 %	800 %	ASTM D412
100% Modulus	0.00965 GPa	1.40 ksi	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	ASTM D412
Taber Abrasion, mg/1000 Cycles	20.5	20.5	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	>= 10.0 min	>= 0.167 hour	Tack Free Time
Gel Time	5.00 min	5.00 min	

Descriptive Properties	Value	Comments
Color	Black, Charcoal Gray, Light Gray	
Flexibility	Pass	ASTM D1737, 1/8" Mandrel
Resistance to Acetic Acid (100%)	Recommended	
Resistance to Brake Fluid (310g/l)	Recommended Conditional	
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 (10%)	Recommended	
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	
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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