

ACC 1KSP EPI Engineered Polymers Silicone Polyurea Dispersion

Category : Polymer , Thermoset , Silicone

Material Notes:

1KSP is a silicone modified polyurea dispersion "Powered by ReactAmine® Technology" designed for a wide range of rigid and flexible substrates such as wood, metal, vinyl, concrete and other plastic parts. 1KSP is an excellent primer for concrete, metal, PVC and wood prior to applying polyureas. A key application is coating concrete, polyurethane, and polyurea bed liners to improve weatherability and color retention. This product has been developed to exhibit a combination of film hardness, flexibility, good water and abrasion resistance, and excellent solvent resistance. This product can be ordered with antimicrobial additives. The 1KSP has anti-graffiti characteristics. 1KSP May be cross linked with a special water dispersible aliphatic isocyanate to improve chemical resistance and toughness. Levels of 5-10% based on solids, should be added. On porous concrete, it is recommended to first apply primer 1K59. This will fill up the pores in the concrete, yielding excellent adhesion to concrete. After the 1K59 is dry to touch, apply 1KSP clear or colored. Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-1KSP-EPI-Engineered-Polymers-Silicone-Polyurea-Dispersion.php

Physical Properties	Metric	English	Comments
Density	0.143 g/cc	0.00515 lb/in ³	
Solids Content	37 %	37 %	by Volume
pH	7.5 - 9.5	7.5 - 9.5	
Viscosity	5.0 - 30 cP	5.0 - 30 cP	@ 275

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	2.0 - 3.0	2.0 - 3.0	Pencil, 1KSP+5%A
Tensile Strength, Yield	41.2 MPa	5980 psi	
	45.0 MPa	6520 psi	1KSP+5%A
Elongation at Break	150 %	150 %	1KSP+5%A
	210 %	210 %	
Abrasion	1.6	1.6	mg loss

Descriptive Properties	Value	Comments
Color	Clear	Film
	Milky, White	
Freeze Thaw Stability	Passed 5 cycles	

Hot Tire Descriptive Properties	No Stain Value	Comments
Plasticizer (1 hour)	5	0 (Failure)-5 (Excellent)
Resistance to Acetone (10 seconds)	5	0 (Failure)-5 (Excellent)
Resistance to Alcohol (1 hour)	0	0 (Failure)-5 (Excellent)
Resistance to Alcohol/Water 1:1 (1 hour)	1	0 (Failure)-5 (Excellent)
Resistance to Ammonia (1 hour)	4-5	0 (Failure)-5 (Excellent)
Resistance to Brake Fluid (2 hours)	No effect	
Resistance to Brake Fluid (24 hours)	0	0 (Failure)-5 (Excellent)
Resistance to Coffee (16 hours)	4	0 (Failure)-5 (Excellent)
Resistance to Diesel Fuel (24 hours)	No effect	
Resistance to Gasoline	No effect	
Resistance to Motor Oil (24 hours)	No effect	
Resistance to Nivea (16 hours)	5	0 (Failure)-5 (Excellent)
Resistance to Pepsi Cola (24 hours)	No effect	
Resistance to Transmission Fluid (24 hours)	No effect	
Resistance to Water (16 hours)	5	0 (Failure)-5 (Excellent)

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