

StanChem SC 9022

Description:

StanChem SC 9022 is an all-acrylic copolymer latex designed for high performance elastomeric roof coatings. SC 9022 provides excellent flexibility and dirt pick up resistance while enabling strong adhesion to multiple surfaces common to roofing systems. Additionally, SC 9022 provides superb weatherability with excellent water and UV resistance.

Typical Physical Properties:

Type:	Acrylic Emulsion
Solids by weight:	54.0 – 56.0%
Viscosity* @ 25°C:	< 800 cps
pH @ 25° C:	9.0 - 10.0
Density:	8.80 ± 0.10 lbs./gal
Tg (DSC):	- 35°C
MFFT:	< 0°C

*Brookfield RVT, #3 Spindle @ 60 RPM

Storage: SC 9022 is stable for at least 12 months from manufacturing date when stored at +5C to +40C in appropriate containers.

WARRANTY:

Seller warrants that its product will meet the specifications which it sets for them. Seller's responsibility under this warranty will be limited solely to replacing the products which prove defective, provided that the Buyer gives Seller prompt notice in writing of said defect. Products may be returned to Seller only after written authorization has been obtained from Seller. The foregoing warranty is in lieu of all other warranties, whether oral, written, express, implied or statutory. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL NOT APPLY. Technical or other advice is furnished by us solely as an accommodation and shall not increase the scope of our responsibilities or liability. Seller's warranty obligations and Buyer's remedies hereunder are solely and exclusively as stated herein: In no event will Seller be liable either for the labor and other associated costs incurred in replacing the product, including, but not limited to, its removal and application, or for other incidental or consequential damages.

StanChem SC 9022 White Elastomeric Coating

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
147.00	17.61	Water		Add ingredients separately and in order under good agitation
4.80	0.52	Tamol 851	DOW	
1.40	0.05	KTPP	ICL	
1.90	0.23	DeeFo 3010E/50	Munzing	
70.40	2.11	Tronox CR-828	Tronox	Add slowly under good agitation
422.20	18.71	Omyacarb 3LF	Omya	Increase speed and disperse to 6+ Hegman
46.90	1.88	Zinc Oxide – ZOCO 103	Zochem	
470.76	54.09	Stanchem SC 9022	Stanchem	Add to letdown tank separately and under good agitation
1.90	0.23	DeeFo 3010/50	Munzing	
7.00	0.93	Texanol	Eastman	
2.10	0.22	Polyphase AF1	Troy	
1.00	0.13	Ammonium Hydroxide		Add slowly
24.40	2.83	Ethylene Glycol		Premix Ethylene Glycol with Natrosol MBR to help reduce incorporation time
4.20	0.48	Natrosol MBR	Ashland	
1205.80	100.02	Total		

Paint Properties

Weight Solids	67.2%
Volume Solids	53.7%
Density	12.06 lbs/gal
PVC	42.3%
Pigment:Binder	1.146
VOC, g/l	71.0
VOC, lbs/gal	0.60
pH	9.0 – 10.0
Viscosity (Stormer, 25°C KU)	90 - 100

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Comparative Performance

Acrylic Polymer Binder		Competitor	SC 9022
Binder properties			
Non-Volatile Material		54.5 – 56.5%	54.5 – 56.5%
Viscosity		< 200 cps	< 250 cps
pH		9.0 – 10.0	9.0 – 10.0
Paint Properties – Tested Values			
Paint Viscosity (KU)		98	94
pH		9.6	9.8
Density (lbs./gallon)		12	11.9
Dry Time @ 28 mils: To Touch (min)	D5895	75	52
Dry Time @ 28 mils: Dry Through (min)	D5895	130	83
Coating Properties	ASTM Proc.		
Tensile Stress at Max Load (MPa)	D2370	2.15	2.99
Percent Elongation at Max Load	D2370	126%	141%
Percent Elongation at Break	D2370	160%	189%
Permeance	E96	0.473	0.481
Water Swelling	D471	9.00%	7.00%
Accelerated Weathering 1000 hours	D4798	Pass	Pass
Low Temp Flex @ 0°F after 1000 hours QUV	D522	Pass	Pass
Adhesion Values	D903		
Dry / Wet Adhesion on HDGE (PSI)		7.51 / 2.65	7.94 / 3.99
Dry / Wet Adhesion on Aluminum (PSI)		5.05 / 4.57	7.69 / 5.21
Dry / Wet Adhesion on EPDM (PSI)		2.17 / 1.64	1.93 / 2.05
Dry / Wet Adhesion on PU Foam (PSI)		2.34 / 3.36	2.51 / 3.65

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Dirt Pick Up Resistance

Competitive Latex

SC 9022



After weathering, color change values before and after Dirt Pick Up Test Method

Color Change	ΔE	SC 9022 shows improved color retention after weathering and dirt pick up test method
SC 9022	10.28	
Competitive Latex	14.34	

Dirt Pick Up Test Method

1. Expose panels to QUV-A for 7 days.
2. Brush panels with dirt slurry.
3. Dry for 4+ hours.
4. Rinse under running water and lightly brush with a foam brush.
5. Allow panels to dry before evaluation.

Dirt Pick-up Slurry

1. 50 g Red Iron Oxide, 40 g Yellow Iron Oxide, and 10 g of Black Oxide Pigment
2. Shake powders listed above until homogenous.
3. Add 0.5 g Tamol 731 to 200 g of DI Water under agitation.
4. Slowly add pigment with increasing speed for 30 minutes until a smooth slurry has formed.

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