StanChem resins
a division of DELTECH

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):	- 35ºC
MFFT:	< 0ºC

*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:

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StanChem SC 9022 White Elastomeric Coating

Pounds	Gallons	Raw Material	Supplier	Instructions
147.00	17.61	Water		Add ingredients separately and in order
4.80	0.52	Tamol 851	DOW	under good agitation
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
1.90	0.23	Deefo 3010/50	Munzing	good agitation
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
4.20	0.48	Natrosol MBR	Ashland	help reduce incorporation time
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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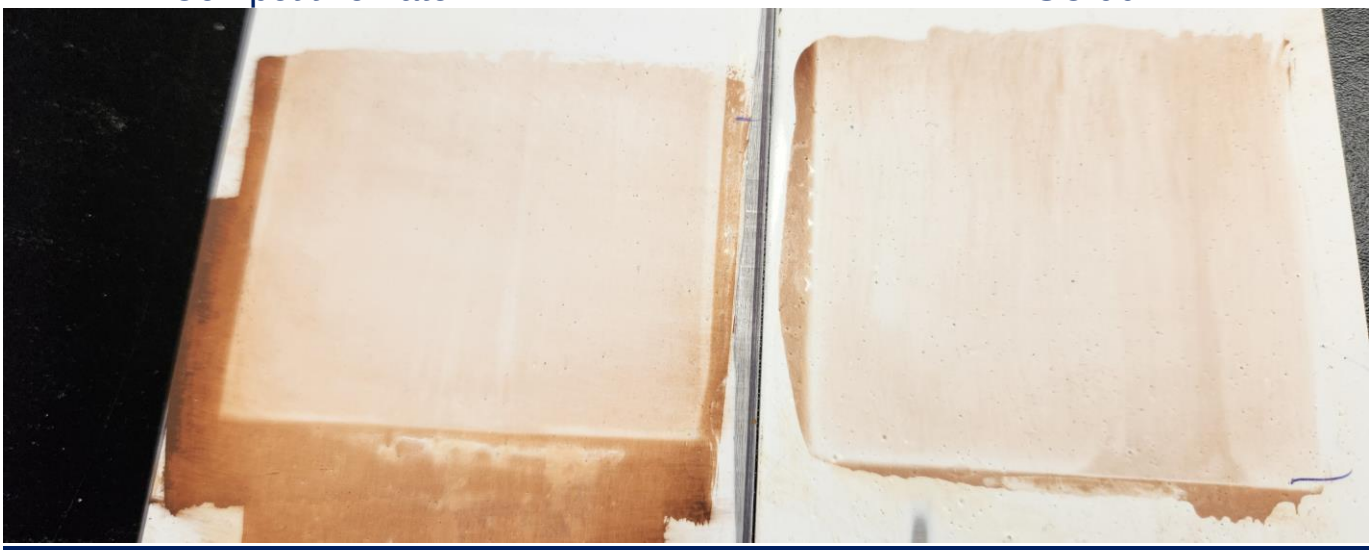
Dirt Pick Up Resistance

Competitive Latex SC 9022



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

Color Change	∆ E	
SC 9022	**10.28**	SC 9022 shows improved color retention after weathering and dirt pick up test method
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.