

StanChem SC 9020

Description:

StanChem SC 9020 is an all-acrylic copolymer latex designed for high performance elastomeric roof coatings. SC 9020 provides excellent flexibility and dirt pick up resistance while enabling strong adhesion to multiple surfaces common to roofing systems. Additionally, SC 9020 provides superb weatherability with excellent water and UV resistance.

Typical Physical Properties:

Type:	Acrylic Emulsion
Solids by weight:	57.0 – 59.0%
Viscosity* @ 25°C:	<500 cps
pH @ 25° C:	6.0 - 7.0
Density:	8.80 ± 0.10 lbs/gal
Tg (DSC):	- 28°C
MFFT:	< 0°C

*Brookfield RVT, #3 Spindle @ 60 RPM

Storage: SC 9020 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 9020 White Elastomeric Coating

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
109.29	13.10	Water		Add ingredients separately and in order under good agitation
10.94	1.19	Nuosperse FX 665	Elementis	
1.99	0.25	AMP-95	Dow	
4.97	0.60	Airex 901W	Evonik	
99.42	2.98	Tronox CR-828	Tronox	Add slowly under good agitation
397.68	17.62	Omyacarb 3LF	Omya	Increase speed and disperse to 6+ Hegman
523.24	59.46	Stanchem SC 9020	Stanchem	Add to letdown tank separately and under good agitation
1.99	0.27	Ammonium Hydroxide		
2.02	0.21	Polyphase 663	Troy	Add grind at this point
25.75	2.98	Propylene Glycol		
5.97	0.69	Acrysol RM-12W	Dow	Add with good agitation to adjust viscosity and rheology
5.97	0.66	Acrysol RM-8W	Dow	
1189.17	100.00	Total		

Typical Paint Properties

Weight Solids	68.40%
Volume Solids	56.57%
Density	11.89 lbs/gal
PVC	36.42%
Pigment:Binder	0.95
VOC, g/l	55.967
VOC, lbs/gal	0.469
pH	8.0-9.0
Viscosity (Stormer, 25°C KU)	100-110

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Expected Physical Properties of Starting Point Formulation:

ASTM D6083 Testing:	ASTM	SC 9020
Initial Percent Elongation (break)	D2370	186.2%
Initial Tensile Strength (max stress)	D2370	0.91-1.06
Final % Elongation (break) after 1000 hours QUV	D2370	128.6%
Permeance	E96	< 1 perm
Water Swelling	D471	5.97%
Accelerated Weathering 1000 hours	D4798/ D4798M	Pass, no checking or cracking
Low Temperature Flex after 1000 hours QUV (0°F)	D522/ D522M	Pass
Adhesion Values	D903	
Dry Adhesion on HDGE*		12.2 PSI
Wet Adhesion on HDGE*		5.7 PSI
Dry Adhesion on EDPM		10 PSI
Wet Adhesion on EDPM		8.3 PSI
Dry Adhesion on Alum.		9.3 PSI
Wet Adhesion on Alum.		7.7 PSI

*- HDGE is Hot Dipped Galvanized Steel Panels

Dirt Pick Up Resistance Data available upon request

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