

StanChem SC 9010

Description:

StanChem SC 9010 is an all-acrylic copolymer latex designed for high performance elastomeric coatings and sealants. SC 9010 is a very low Tg binder that ensures maximum flexibility and adhesion in the coldest climates. Suitable for Type I elastomeric coatings per ASTM D6083.

Typical Physical Properties:

Type:	Acrylic Emulsion
Solids by weight:	56.0 – 58.0%
Viscosity* @ 25°C:	50 - 500 cps
pH @ 25° C:	7.5 - 8.5
Tg (DSC):	- 42°C
MFFT:	< 0°C

*Brookfield RVT, #2 Spindle @ 60 RPM

Storage: SC 9010 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 9010 White Elastomeric Coating

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
108.21	12.97	Water		Add ingredients separately and in order under good agitation
11.06	1.21	Nuosperse FX 665	Elementis	
2.01	0.25	AMP-95	Dow	
5.03	0.60	Airex 901W	Evonik	
100.53	3.00	Tronox CR-828	Tronox	Add slowly under good agitation
390.05	17.72	Omyacarb 3LF	Omya	Increase speed and disperse to 6+ Hegman
526.65	55.56	Stanchem SC 9010	Stanchem	Add to letdown tank separately and under good agitation
16.35	3.38	Water		
2.01	0.27	Ammonium Hydroxide		Add grind at this point
2.4	1.04	Polyphase 663	Troy	
26.04	3.00	Propylene Glycol		
6.03	0.69	Acrysol RM-12W	Dow	Add with good agitation to adjust viscosity and rheology
<u>6.03</u>	<u>0.66</u>	Acrysol RM-8W	Dow	
1202.39	100.70	Total		

Formulation Parameters

Weight Solids	66.86%
Volume Solids	54.79%
Density	11.941 lbs/gal
Pigment Volume Concentrate	36.79%
Pigment:Binder	0.932
VOC, g/l	58.753
VOC, lbs/gal	0.493

Typical Paint Properties

pH	8.0-9.0
Viscosity (Stormer, 25C, KU)	100-110

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Expected Physical Properties of Starting Point Formulation:

ASTM D6083 Testing:	ASTM	SC 9010
Initial Percent Elongation (break)	D2370	455.8%
Initial Tensile Strength (max stress)	D2370	0.42
Final % Elongation (break) after 1000 hours QUV	D2370	284.6%
Permeance	E96	< 1 perm
Water Swelling	D471	16.14%
Accelerated Weathering 1000 hours	D4798/ D4798M	Pass, no checking or cracking
Low Temperature Flex after 1000 hours QUV (-15°F)	D522/ D522M	Pass
Adhesion Values	D903	
Dry Adhesion on HDGE*		11.8 PSI
Wet Adhesion on HDGE*		8.6 PSI
Dry Adhesion on EDPM		19.0 PSI
Wet Adhesion on EDPM		9.6 PSI
Dry Adhesion on Alum.		10.6 PSI
Wet Adhesion on Alum.		7.6 PSI

*- HDGE is Hot Dipped Galvanized Steel Panels

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