

StanChem SC 6957

Description:

StanChem SC 6957 is a small particle size, Styrene Acrylic copolymer used as a binder for a wide variety of substrates. Coatings formulated with SC 6957 exhibit excellent hardness development and block resistance, excellent adhesion to ferrous and non-ferrous metals, and excellent abrasion, chemical, and early water resistance.

Typical Physical Properties:

Type:	Styrene Acrylic Emulsion
Solids by weight:	40.5 – 42.5 %
Viscosity* @ 25°C:	<1000 cps
pH @ 25°C:	7.0 – 8.0
Density:	8.60 ± 0.10 lbs/gal
Tg (DSC):	39°C
Coalescent Demand: (to achieve proper film formation at 37°F)	30% DPnB or Texanol 40% Butyl Cellosolve (EB)

*Brookfield RVT, #4 Spindle @ 20 RPM

Storage: SC 6957 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 6957 Gloss White DTM Enamel

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
50.0	6.00	Water		Add ingredients separately and in order under good agitation
1.0	0.13	AMP-95	Dow	
7.0	0.76	Nuosperse FX 665	Elementis	
3.0	0.34	Surfynol PSA 336	Evonik	
3.0	0.36	Airex 901W	Evonik	
180.0	5.40	Tronox CR-828	Tronox	Add slowly under good agitation
1.0	0.11	Acrysol RM-8W	Dow	Increase speed and disperse to 7+ Hegman
602.4	70.05	Stanchem SC 6957	StanChem	Add to letdown tank separately and under good agitation
39.0	4.68	Water		Add grind at this point
2.0	0.22	Proxel AQ	Lonza	
10.0	1.14	Halox 570 30% solution	ICL/Halox	
3.0	0.36	Byk 346	Byk Chemie	
75.0	9.89	Glycol Ether DPnB	Lyondell Bassell	
4.0	0.44	Acrysol RM-2020	Dow	Add slowly under agitation to adjust viscosity and rheology
1.0	0.11	Acrysol RM-8W	Dow	
981.4	100.00	Total		

Formulation Parameters

Weight Solids	45.09%
Volume Solids	34.76%
Density	9.81 lbs/gal
Pigment Volume Concentrate	16.16%
Pigment / Binder	0.72
VOC, g/l	207
VOC, lbs/gal	1.73

Typical Paint Properties

pH	8.0 - 8.5
Viscosity (Stormer, 25C, KU)	70 – 80
Gloss (20°/60°, at 1.5-2.0 mils DFT)	68.8 / 90.0
Corrosion Resistance (ASTM B117, 2.0 mils DFT on CRS)	168+ hours

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StanChem SC 6957 Red Oxide Primer

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
75.0	9.00	Water		Add ingredients separately and in order under good agitation
10.0	1.09	Nuosperse FX 665	Elementis	
3.0	0.34	Surfynol PSA 336	Evonik	
1.0	0.13	AMP-95		
3.0	0.35	Byk 024	Byk Chemie	
100.0	2.45	HR-1203 Red Iron Oxide	Hoover	Add slowly under good agitation
100.0	4.43	Omyacarb 3 LF	Omya	Increase speed and disperse to 5+ Hegman
50.0	1.99	SZP-391	ICL/Halox	
578.3	67.24	StanChem SC 6957	StanChem	Add to letdown tank separately and under good agitation
13.6	1.63	Water		
1.0	0.13	Ammonia (20%)		Add grind at this point
2.0	0.22	Proxel AQ	Lonza	
10.0	1.14	Halox 570 30% solution	ICL/Halox	
72.0	9.50	Glycol Ether DPnB	Lyondell Bassell	
3.0	0.35	Rheolate 288	Elementis	
1021.9	100.00	Total		

Formulation Parameters

Weight Solids	49.05%
Volume Solids	36.97%
Density	10.22 lbs/gal
Pigment Volume Concentrate	24.81%
Pigment / Binder	1.04
VOC, g/l	185
VOC, lbs/gal	1.55

Typical Paint Properties

pH	8.0 - 8.5
Viscosity (Stormer, 25C, KU)	75 - 85
Corrosion Resistance (ASTM B117, 2.0 mils DFT on CRS)	200+ hours

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