

StanChem

polymers

StanChem SC 6257

Description:

StanChem SC 6257 is a small particle size, Styrene/acrylic emulsion that can be used as a binder for coatings used on a variety of different substrates. Coatings formulated with SC 6257 exhibit excellent clarity, water resistance, abrasion resistance, hardness development and block resistance, as well as excellent adhesion properties.

Typical Physical Properties:

Type:	Styrene Acrylic emulsion
Solids by weight:	40.5 – 42.5 %
Viscosity* @ 25° C:	400 -1400 cps
pH @ 25° C:	7.0 – 8.0
Density:	8.60 ± 0.1 lbs/gal
Tg (DSC):	33°C
Freeze / Thaw Resistance (10°F)	PASS (5 Cycles)

*Brookfield RVT, #4 Spindle @ 20 RPM

Storage: SC 6257 is stable for at least 12 months from manufacturing date when stored between 5°C-40°C 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 6257 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
9.0	0.99	Nuosperse FX 618	Elementis	
4.0	0.48	Airex 901W	Evonik	
4.0	0.46	Surfynol PSA 336	Evonik	
1.0	0.13	AMP-95	Dow	
200.0	6.00	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 6257	Stanchem	Add to letdown tank separately and under good agitation
58.7	7.05	Water		
2.0	0.22	Proxel AQ	Lonza	
10.0	1.14	Halox 570 LS	ICL/Halox	
3.0	0.35	Byk 345	Byk Chemie	
50.0	6.60	DPnB	Lyondell Bassell	Add grind at this point
4.0	0.44	Acrysol RM-2020	Dow	Add slowly under agitation to adjust viscosity and rheology
999.1	100.02	Total		

Formulation Parameters

Weight Solids	46.82%
Volume Solids	35.91%
Density	9.99 lbs/gal
Pigment Volume Concentrate	17.64%
Pigment / Binder	0.80
VOC, g/l	146
VOC, lbs/gal	1.22

Typical Paint Properties

pH	8.0-9.0
Viscosity (Stormer, 25C, KU)	95-105
Gloss (20°/60°, at 1.5-2.0 mils DFT)	66.1 / 84.1
Corrosion Resistance (ASTM B117, 2.0 mils DFT on CRS)	200+ hours

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StanChem SC 6257 Grey Corrosion Resistant Primer

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
60.0	7.20	Water		Add ingredients separately and in order under good agitation
10.0	1.14	Tamol 165A	Dow	
1.5	0.20	Byk 038	Byk Chemie	
3.0	0.34	Surfynol PSA 336	Evonik	
1.0	0.13	AMP-95	Dow	
115.0	5.86	Tronox CR-828	Tronox	Add slowly under increasing agitation
115.0	5.10	Atomite	Imerys	
50.0	1.99	Halox SZP-391	ICL/Halox	
20.0	0.52	Bayferrox 318M	Lanxess	
554.0	64.42	Stanchem SC 6257	Stanchem	Add to letdown tank separately and under good agitation
48.7	5.85	Water		
2.0	0.22	Proxel AQ	Lonza	Add grind at this point
2.0	0.27	Ammonia (20%)		
10.0	1.14	Halox 570 LS	ICL/Halox	
1.5	0.20	Byk 038	Byk Chemie	
46.0	6.13	Butyl Cellosolve (EB)	Eastman	
11.5	1.35	Phosflex T-BEP	ICL/Halox	
3.0	0.35	Rheolate 288	Elementis	
1054.2	100.00	Total		Add slowly under agitation to adjust viscosity and rheology

Formulation Parameters

Weight Solids	52.40%
Volume Solids	39.34%
Density	10.54 lbs/gal
Pigment Volume Concentrate	30.04%
Pigment / Binder	1.30
VOC, g/l	126
VOC, lbs/gal	1.05

Typical Paint Properties

pH	8.0-8.5
Viscosity (Stormer, 25C, KU)	80-90
Corrosion Resistance (ASTM B117, 2.0 mils DFT on CRS)	250+ hours

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