



## StanChem SC 6972

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### Description:

StanChem SC 6972 is a styrene-acrylic polymer colloidal dispersion in a water/dimethyl aminoethanol (97/3). It is designed for use in thermoset coatings that are crosslinked with melamine.

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### Typical Physical Properties:

Type:	Styrene-Acrylic
Solids by weight:	36.0 – 38.0%
Viscosity* @ 25° C:	< 700 cps
pH @ 25° C:	6.5 – 7.5
Ionic Charge:	Anionic
Tg (DSC):	40°C
Hydroxyl Eq. Weight:	1700 – 1800
Weight Percent DMEA:	1.5 – 1.9

\*Brookfield RVT, #4 Spindle @ 20 RPM

**Storage:** SC 6972 is stable for at least 6 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 6972 1K High Gloss White Bake Enamel

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
17.20	1.97	<u>StanChem SC 6972</u>	<u>StanChem</u>	Add ingredients separately and in order under good agitation
37.50	4.50	DI Water		
2.00	0.28	Surfynol 104A	Evonik	
7.00	0.77	Tamol 681	Dow	
189.60	5.69	Tronox CR-828	Tronox	Add under good mix, grind to 7+ Hegman
433.80	49.75	<u>Stanchem SC 6972</u>	<u>Stanchem</u>	Add to letdown tank separately and under good agitation
42.90	4.29	Cymel 303 LF	Allnex	
1.50	0.17	BYK 024	BYK Chemie	
26.00	3.12	DI Water		
13.00	1.76	DMEA	Astro Chemical	Used to increase viscosity
<u>236.80</u>	<u>28.43</u>	<u>DI Water</u>		
<b>1007.30</b>	<b>100.73</b>	<b>Total</b>		

### Formulation Parameters

Weight Solids	40.01%
Volume Solids	27.06%
Density	10.00 lbs/gal
Pigment Volume Concentrate	21.18%
Pigment:Binder	0.91
VOC, g/l	65
VOC, lbs/gal	0.54

### Typical Paint Properties

pH	8.0-8.5
Viscosity (#2 Zahn Cup, 25°C)	35-55 sec
Gloss (60°)	85+
Bake Cycle	300°F / 15 minutes

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## StanChem SC 6972 1K High Gloss White Bake Enamel

### Expected Physical Properties of Starting Point Formulation:

Properties on HDGE*	SC 6972	Competitive Latex
Gloss (60°)	85.9	83.6
Hardness (König Pendulum)	35 sec	47 sec
Mandrel Bend (less than 0.125")	Pass	pass
Adhesion (Cross Hatch)	5	5
MEK Double Rubs (10 minutes @ 300°F)	23	20
MEK Double Rubs (15 minutes @ 300°F)	100	100
Pencil Hardness	2H-6B	3H-6B
Properties on Aluminum		
Gloss	86.7	89.1
Hardness (König Pendulum)	52 sec	38 sec
Mandrel Bend (less than 0.125")	Pass	pass
Adhesion (Cross Hatch)	5	5
MEK Double Rubs (10 minutes @ 300°F)	14	12
MEK Double Rubs (15 minutes @ 300°F)	100	100
Pencil Hardness	B-6B	3H-6B

\*- HDGE is Hot Dipped Galvanized Steel Panels

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