

BECKOSOL AQ® 206
Medium Oil Alkyd Latex**DESCRIPTION**

BECKOSOL AQ 206 is a medium oil alkyd latex based on a bio-renewable fatty acids that combines excellent initial film color and color stability with good cure speed. Beckosol AQ 206 requires no coalescing solvent for film formation and produces AIM compliant coatings that develop the performance of traditional solvent-borne products. Beckosol AQ 206 does not contain alkyl phenol ethoxylates.

APPLICATIONS

- OTC, CARB and AIM compliant interior and exterior architectural enamels
- Decorative finishes at any gloss, from very high to satin

FEATURES

- Dry through in 3-4 hours
- Excellent initial film color and reduced long-term yellowing
- Very high gloss at 60 degrees and good DOI
- VOC below 15 g/l as supplied, requires no coalescing solvent for film formation
- Soap and water clean-up
- Excellent polymer and coating stability

TYPICAL PROPERTIES

Appearance	Milky white
Percent Solids by Weight	55
Percent Solids by Volume	52.5
Viscosity, Brookfield, 50 RPM, #3 spindle	100 cps
Pounds per Gallon	8.91
Pounds per Gallon, Solids	9.18
pH	7.0
Odor	Mild
Volatile Content (Percent)	Water, Proprietary Surfactant (44.2%, 0.8%)

STORAGE

Store in a cool, dry place, preferably under 80° F to ensure a useful shelf life of at least one year. Keep from freezing.

SAFETY

Read the BECKOSOL AQ 206 Material Safety Data Sheet before handling, storing or using this product.

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose,** nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

Beckosol AQ® 206
Cobalt-Free Gloss White Architectural Enamel
 Formula #4669-23

Formulation

Raw Material	#/100	Gal/100	Supplier
Water	143.52	17.23	
Natrosol 330 Plus	2.30	0.21	1
28% Ammonia	1.01	0.13	
Disperbyk 190	9.57	1.09	2
Byk 022	2.30	0.28	2
TiPure R-706	273.62	8.21	3
<i>High speed disperse to a 7+ Hegman.</i>			
<i>Premix next 2 items before adding:</i>			
Beckosol AQ 206	523.69	58.78	4
Borchi Oxy Coat	5.44	0.63	5
Capstone FS-61	0.26	0.03	3
Polyphase 663	3.00	0.31	6
Aquaflow NHS 300	18.00	2.08	1
<i>Premix next 3 items before adding:</i>			
Aquaflow NLS 200	3.65	0.42	1
Propylene Glycol	6.59	0.76	
Water	79.47	9.54	
FoamStar A34	2.45	0.30	7
Total	1074.87	100.00	

Suppliers

1	Ashland-Aqualon	5	OMG
2	Byk Chemie	6	Troy
3	DuPont	7	Cognis
4	Reichhold, Inc.		

Formulation Physicals

Non-Volatile by Weight	54%
Non-volatile by Volume	41%
Pigment Volume Concentration	21%
Pigment to Binder Weight Ratio	0.95:1
VOC (g/l)	50.0
Pounds per Gallon	10.75
pH	7.5
Viscosity, Stormer, KU	96.5
Viscosity, ICI, Poise	1.550

Coating Performance

Dry Time, 3.0 wet mils on glass	
Set to touch	30 minutes
Zapon tack free, 500g load	8.25 hours
Gloss, 20°, 7 days	82
Gloss, 60°, 7 days	95
Sag Resistance, ASTM D 4400	12 mils
Leveling, ASTM D 2801	6

Formulating Notes

For best results, OxyCoat 100 should be incorporated into the resin before the grind base is added.

De-ionized water is recommended; however, Beckosol AQ products have not shown sensitivity to tap water.

Coalescing solvents are not needed for film formation. Propylene glycol or similar glycols are required for freeze-thaw stability.