

BECKOSOL® AQ 210
Chain-stopped Medium Oil Alkyd Latex**DESCRIPTION**

BECKOSOL AQ 210 is a chain-stopped medium oil alkyd latex based on bio-renewable oils that combines excellent adhesion to metal with good corrosion resistance. Beckosol AQ 210 requires no coalescing solvent for film formation and produces AIM compliant metal primers that develop the performance of traditional solvent-borne products. Beckosol AQ 210 does not contain alkyl phenol ethoxylates.

APPLICATIONS

- OTC, CARB and AIM compliant DTM primers
- One coat DTM enamels

FEATURES

- Stability with anti-corrosive pigments
- Passes 336 plus hours of salt fog and condensing humidity at 1.5 mils dry film thickness on cold rolled steel
- Good adhesion to galvanized steel and aluminum
- Lift resistant to ketone containing alkyd enamels
- Supplied at 15 g/L VOC, no coalescing solvent required for film formation

TYPICAL PROPERTIES

Appearance	Milky white
Percent Solids by Weight	55
Percent Solids by Volume	52.5
Viscosity, Brookfield, 50 RPM, #3 spindle, typical	500 cps
Pounds per Gallon	8.90
Pounds per Gallon, Solids	9.18
pH	7.6
Odor	Mild
Volatile Content (Percent)	Water, Proprietary Surfactant (44.25%, 0.75%)

STORAGE

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

SAFETY

Read the BECKOSOL AQ 210 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® 210
Direct-to-Metal Primer
 Formula Number 4669-27J

Formulation

Raw Material	#/100	Gal/100	Supplier
Water	161.60	19.40	
28% Ammonia	1.58	0.21	
Tamol 165A	10.96	1.26	1
Triton DF 16	2.42	0.29	2
Byk 022	1.62	0.20	3
RO 3097 Red Iron Oxide	53.80	1.32	4
Wayncor 226	53.80	2.23	5
Vantalc 4500	53.80	2.35	6
Atomite Star	107.60	4.78	7
Cab-O-Sil M5	4.86	0.27	8
<i>Grind Total</i>	<i>452.05</i>	<i>32.31</i>	
<i>High speed disperse to a 5.5 N.S.</i>			
Beckosol AQ 210	489.67	55.05	9
<i>Premix next two items and add:</i>			
Co 5% Hydrocure II	2.16	0.28	10
Zr 12% Hydro Cem	3.60	0.44	10
Water	74.18	8.91	
<i>Add grind base</i>			
28% Ammonia	0.82	0.11	
Flash-X 150	5.18	0.55	11
Aquaflow NHS 300	15.10	1.75	12
Water	2.06	0.25	
Aquaflow NLS 200	1.04	0.12	12
FoamStar A34	1.98	0.24	13
<i>Total</i>	<i>1047.84</i>	<i>100.00</i>	

Formulation Physicals

Non-Volatile by Weight	53.3%
Non-volatile by Volume	41.5%
Pigment Volume Concentration	27.3%
Pigment to Binder Weight Ratio	1.02:1
VOC (g/l)	22.2
Pounds per Gallon	10.48
pH	8.68
Viscosity, Stormer, KU	79
Viscosity, ICI, Poise	0.91

Coating Performance

Dry Time, 4.0 wet mils on glass	
Set to touch	15 minutes
Zapon tack free,500 gm load	2 hours
To Handle	4 hours
Corrosion testing	
Substrate	CRS
Dry Film Thickness	1.55 mils
Salt Fog	
Duration, hours	336
Scribe creep, mm	2-3
Field blisters	VF8
Cleveland Condensing Humidity	
Duration, Hours	336
Face blisters	F8
Color change	Minimal

Suppliers

1	Rohm & Haas	8	Cabot
2	Dow	9	Reichhold
3	Byk	10	OMG
4	Heubach	11	Halox
5	Wayne Pigment Co.	12	Ashland-Aqualon
6	RT Vanderbilt	13	Cognis
7	Imerys		