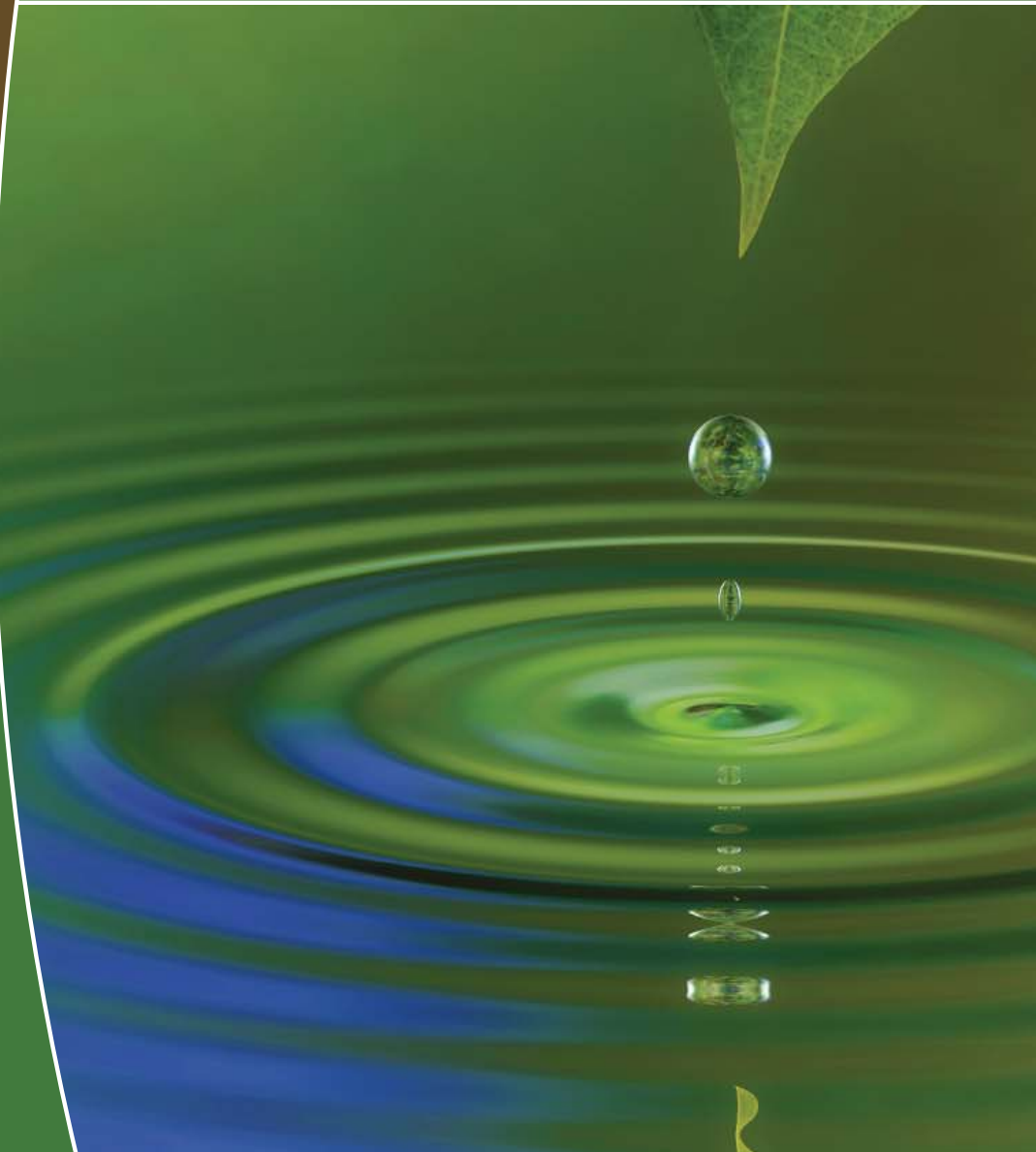




Beckosol AQ™

ALKYD-PERFORMANCE. WATER CLEANUP.



REICHHOLD

Broad-based performance.
Regulatory compliance. Pure brilliance.



Reasons to Switch to Beckosol AQ™

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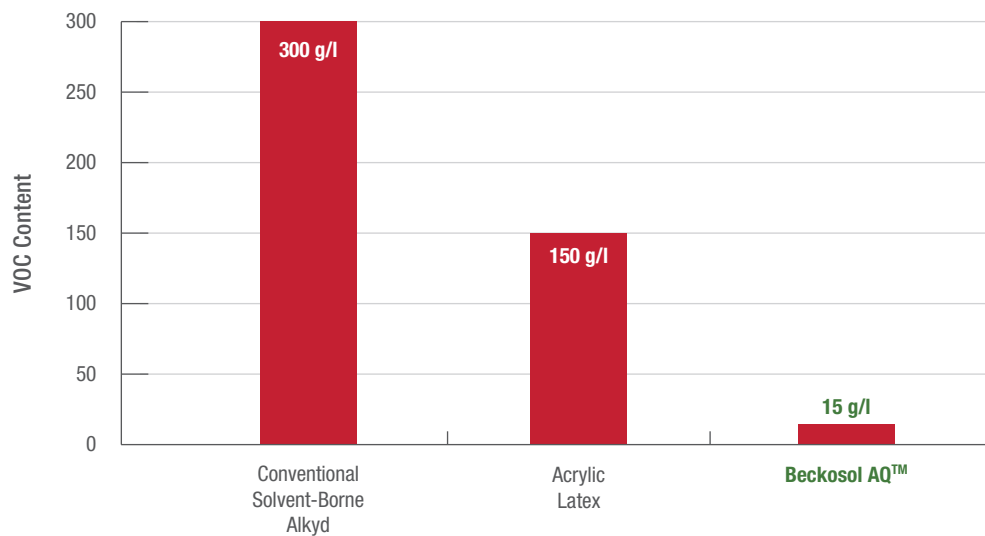
Broad-based performance. Regulatory compliance. Pure brilliance.

Beckosol AQ™ is the resin that works like an alkyd, cleans with just water, and outperforms the competition in all applications from stain and primer to flat, semi-gloss and high gloss paints. Not only that, you can use one polymer and eliminate costly machine down time.

Beckosol AQ™ is made from renewable resources, giving you the green advantage. All this for less than you're paying now. The numbers speak for themselves. It's time to evaluate Beckosol AQ™ for your line.

1 reformulation to meet VOC standards of the future

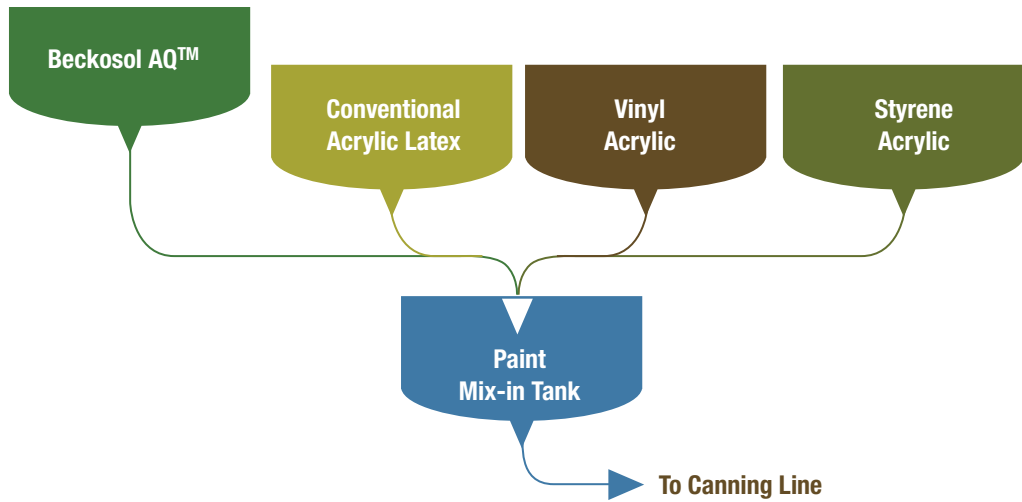
Stay ahead of regulations—and the competition! Beckosol AQ™'s low VOC content of 15 g/l you'll only need to formulate once for years of regulatory compliance.





1 polymer for use throughout multiple production lines

No need to shut down your lines to switch out polymers. Eliminate the need for dedicated lines and costly cleanout procedures. Our Beckosol AQ™ products are surfactant stabilized, and compatible with most acrylic, styrene acrylic and vinyl acrylic latex products.



1-2-3 easy steps to formulation

Beckosol AQ™ formulates like a traditional acrylic latex without the need for a coalescing solvent.

Formulating High Gloss Trim Enamel with Beckosol AQ™, 50 g/l VOC

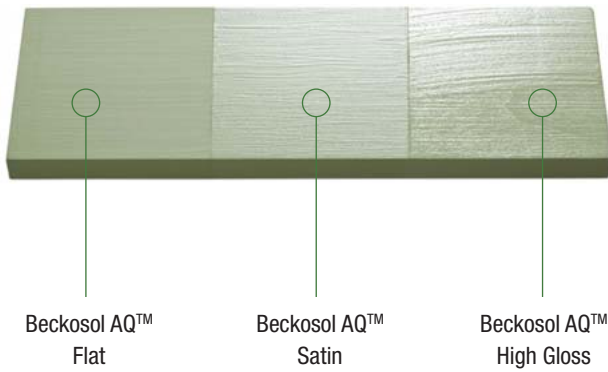
Step 1: Pigment Grind		Step 2: Binder Premix		Step 3: Final Letdown	
Water	44.00	Beckosol AQ™	553.00	Propylene Glycol	12.50
Natrasol® 330 Plus	0.75	<i>Premix Driers then add while mixing:</i>		Water	78.15
Triethylamine	0.30	Co 5% Hydrocure® II	3.04	Byk®-011	1.00
Add following while mixing		Dri-Rx HF	0.76	Polyphase® 663	5.00
DisperByk® 190	2.50	ZR 12% Hydrro-Cem®	6.34	Acrysol™ RM-8W	17.00
Triton® CF 10	0.75	<i>Add Grind Paste</i>		Total	1044.39
Bentone® EW solution 2.5%	40.00				
Kathon LX	0.40				
Rhodaline® 643	0.50				
TiPure® R-706	250.00				
TINT-AYD® WD 2018	0.40				
<i>Grind above, then add</i>					
Water	30.00				
Acrysol™ RM-8W	3.00				



1 resin vehicle for stains, flats, semi-gloss and high gloss

Formulate multiple products with minimal resin inventory—it's that versatile! Plus, you get alkyd-like performance in a water borne system with Beckosol AQ™

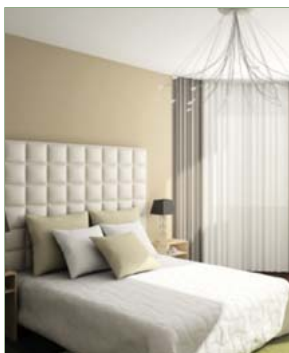
One resin for multiple finishes



One resin for multiple applications



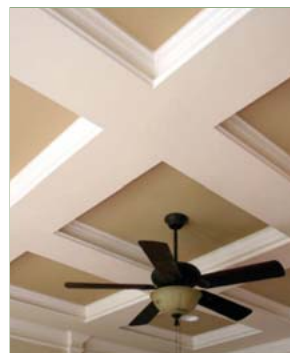
Semi-transparent stain



Flat paint



Semi-gloss



High gloss trim paint.

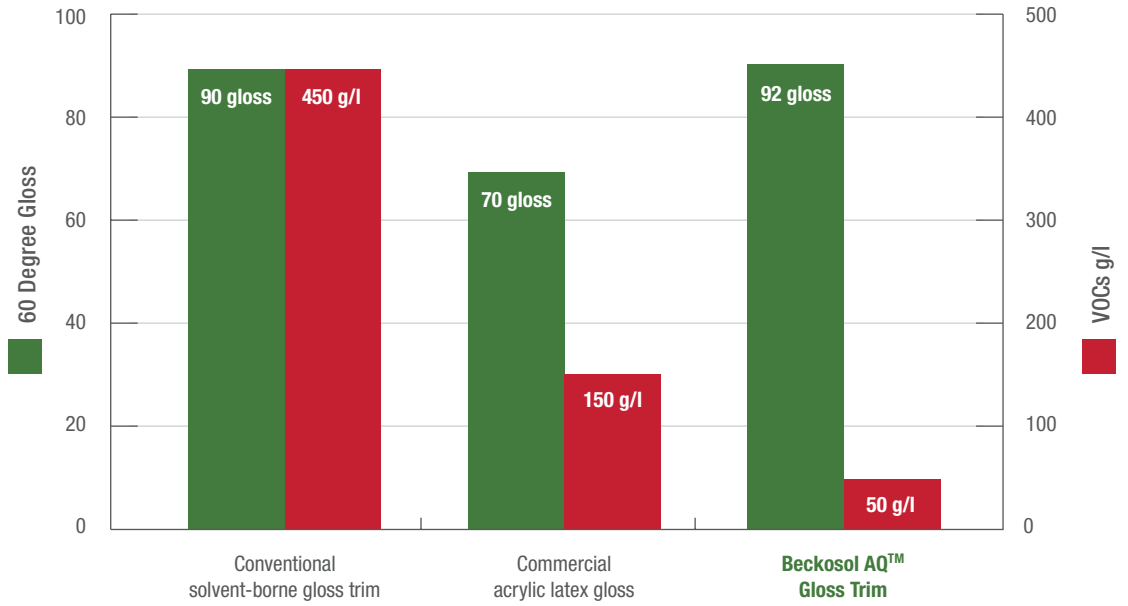




90+ gloss reading at near-zero VOCs

Achieve high gloss at low VOCs with Beckosol AQ™ — eliminate the need for coalescing solvent!

Beckosol AQ™ Outshines the Competition





5B Adhesion rating to chalky latex surfaces and aged gloss alkyd

Adhesion that is unsurpassed by any latex product.

Chalky Latex Substrate — Cross-Hatch/Tape Pull Adhesion Testing to Chalky Latex Substrate



Beckosol AQ™

Commercial Latex Primer

Aged Gloss — Cross-Hatch/Tape Pull Adhesion Testing over Aged Gloss Alkyd: 1 day cure, dry and wet adhesion



Beckosol AQ™
High Gloss

Beckosol AQ™
Gloss-Tinted

Commercial
Gloss Latex

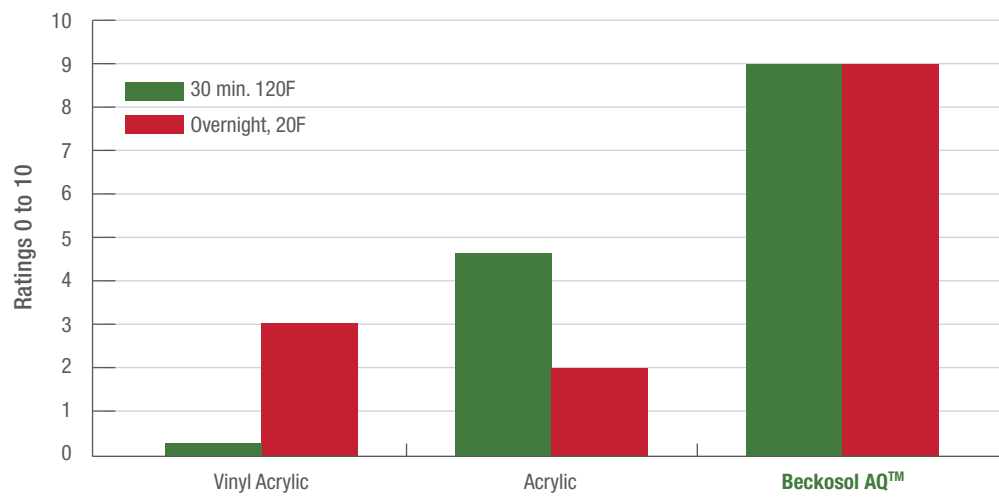




8 block resistance rating for semi-gloss paints

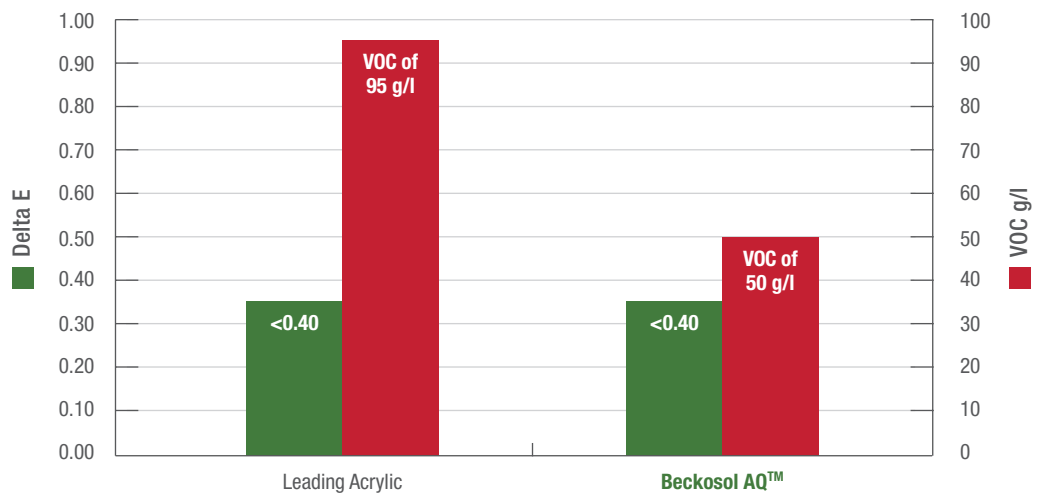
More block resistant than a coalesced acrylic or vinyl acrylic latex, Beckosol AQ™ cures to a thermoset polymeric network

Block resistance of test semi-glass coatings



Excellent low temperature touch up at 37 degrees

Low Temperature Touch Up for 50 PVC Flat Paints — Delta E values

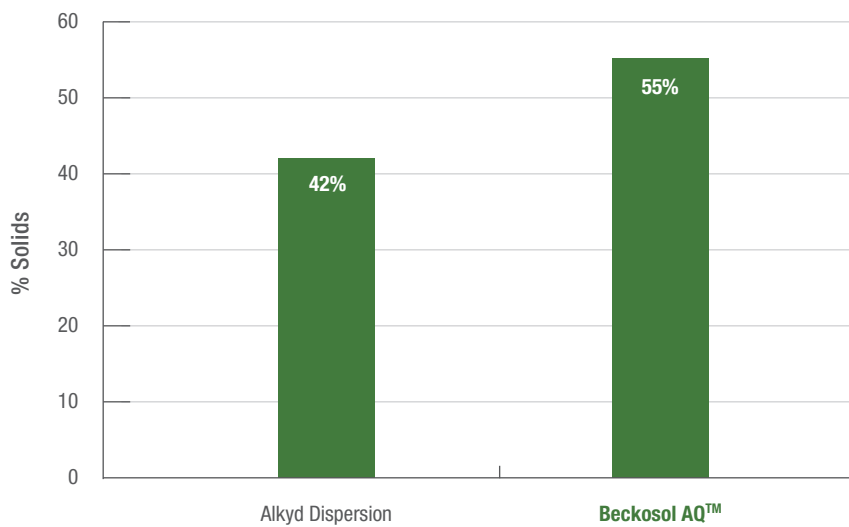




55% Solids (compared to conventional alkyd dispersions at 35%–45% solids)

Beckosol AQ™ is supplied at greater than 50% solids as milky emulsion. These are **not** conventional alkyd dispersions. Beckosol AQ™ are true emulsions.

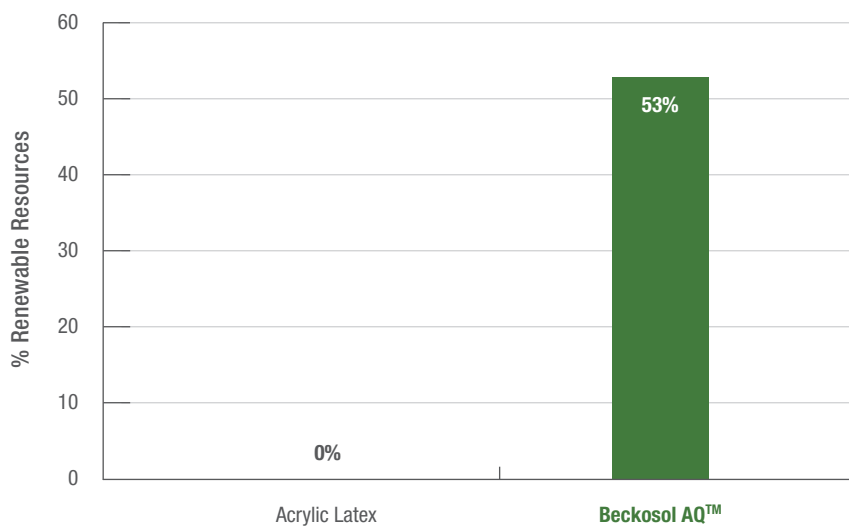
Beckosol AQ™ Compared to Conventional Alkyd Dispersions



40%–60% renewable resources

The ultimate “green” resin, Beckosol AQ™ is based on renewable resources—plant oils! Make your paints truly green.

Renewable Resource Content on Solid Basis





Beckosol AQ™ Performs

See for yourself! Check out the latest test results for Beckosol AQ™—based paint coatings in a variety of applications.

Early water spotting



Number one consumer
semi-transparent stain

One coat of Beckosol AQ™
semi-transparent stain

High gloss finish



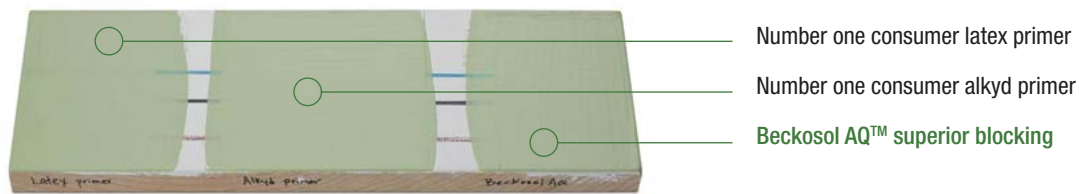
Number one consumer
latex brand—one coat
over commercial primer.



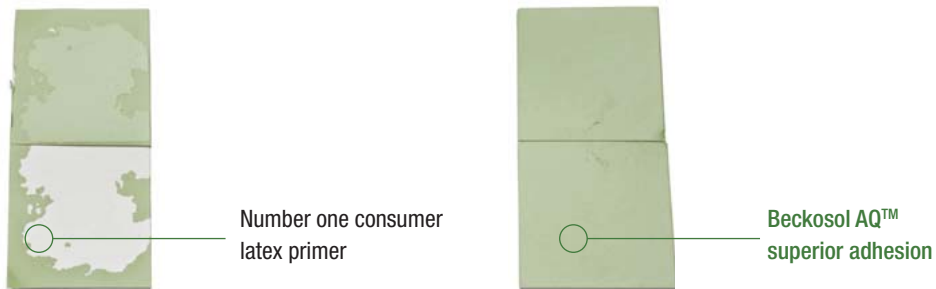
Two coats self-priming
Beckosol AQ™—lower VOCs
and cleans up with water



Stain blocking



Adhesion



Adhesion to weathered, chalky latex? Beckosol AQ™ beats all!

	Beckosol AQ™ Primer	Commercial Latex Primer #1	Beckosol AQ™ 50 PVC Flat	Commercial Latex Flat #1	Beckosol AQ™ Gloss Enamel	Commercial Gloss Enamel
1 day cure, dry adhesion	5B	1B	5B	0B	5B	0B
1 day cure, wet adhesion	5B	0B	5B	0B	5B	0B
7 day cure, dry adhesion	5B	1B	5B	0B	5B	0B
7 day cure, wet adhesion	5B	0B	5B	0B	5B	0B



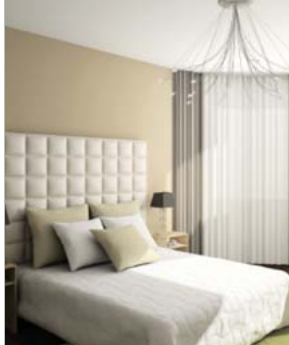


The Revolutionary Resin

Use Beckosol AQ™ for the highest quality in all formulations including semi-transparent wood stains, primers, flat, semi-gloss and high gloss paint, and metal enamels.



Semi-transparent stain



Flat paint



Semi-gloss



High gloss trim paint.





Beckosol AQ™ 100 | Product Code: 91777-00 | Long Oil Alkyd Latex

Description

Beckosol AQ™ 100 is a waterborne long oil alkyd designed to achieve very low VOC for architectural and light duty industrial coatings applications.

Applications

- Transparent and semi-transparent stains for vertical and horizontal wood surfaces
- Light duty industrial and architectural metal finishes
- Trim and trellis

Features

- Low VOC, < 50 grams per liter
- Traditional alkyd like penetration into wood
- Wets and adheres to properly prepared metal surfaces
- Designed to formulate like a latex resin
- Excellent shelf stability

Typical Properties

Appearance	Milky white
Percent Solids by Weight	55%
Percent Solids by Volume	53.1%
Viscosity, @ 50 rpm (Brookfield #3 spindle)	750 cps
Pounds per Gallon, Emulsion	8.68
Pounds per Gallon, Solids	8.96
pH	4.9
Particle Size – Dv (nm)	280
Volatile Components	Water

Storage

Store in a cool, dry place, preferably under 80° F to ensure a useful shelf life of at least six months.

This latex should be mixed before use to ensure uniform solids.

Read the Beckosol AQ™ 100 Material Safety Data Sheet before handling, storing or using this product.





Beckosol AQ™ 200 | Product Code: 91778-00 | Medium Oil Alkyd Latex

Description

Beckosol AQ™ 200 is a waterborne medium oil alkyd designed to achieve very low VOC for architectural and light duty industrial coatings applications.

Applications

- Semi-gloss and high gloss architectural coatings
- Industrial and architectural metal finishes
- Stain and Primer vehicle

Features

- Low VOC, < 50 grams per liter
- Excellent gloss development
- Durable finish
- Designed to formulate like a latex resin
- Excellent shelf stability

Typical Properties

Appearance	Milky white
Percent Solids by Weight	55
Percent Solids by Volume	52.5
Viscosity, 50 rpm (Brookfield #3 spindle)	620 cps
Pounds/Gallon, Emulsion	8.78
Pounds/Gallon, Solids	9.16
pH	4.9
Particle Size – Dv (nm)	260
Volatile Components	Water

Storage

Store in a cool, dry place, preferably under 80° F to ensure a useful shelf life of at least six months.

This latex should be mixed before use to ensure uniform solids.

Read the Beckosol AQ™ 200 Material Safety Data Sheet before handling, storing or using this product.



Beckosol AQ™ 510 | Modified Long Oil Alkyd Latex

Description

Beckosol AQ™ 510 is a long oil alkyd latex modified with an acrylic copolymer. It is designed to provide very low VOC formulations for architectural applications.

Applications

- Semigloss and Gloss Architectural Enamels
- Primers
- Light Industrial Coatings

Features

- Low VOC, < 50 grams per liter
- Fast Dry
- Designed to formulate like a latex resin
- Excellent shelf stability
- Soap and water clean up

Typical Properties

Appearance	Milky white
Percent Solids by Weight	61
Percent Solids by Volume	59.1
Viscosity, 50 rpm (Brookfield)	2000 cps max
Pounds/Gallon, Emulsion	8.8
Pounds/Gallon, Solids	9.0
pH	6.5
Odor	Mild
Volatile Components	Water

Storage

Store in a cool, dry place, preferably under 80° F to ensure a useful shelf life of at least six months.

This latex should be mixed before use to ensure uniform solids.

Read the Beckosol AQ™ 510 Material Safety Data Sheet before handling, storing or using this product.



For more information on
Reichhold's complete line of Beckosol products,
contact your Reichhold sales representative
or call the Coatings Technical Hotline at (800) 431-1920.

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Research Triangle Park, NC 27709
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www.Reichhold.com

Bringing Solutions to the Surface

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