



BECKOSOL AQ[®]

ALKYD PERFORMANCE. WATER CLEANUP.

REICHHOLD

REVOLUTIONIZE YOUR COATING PERFORMANCE WITH **BECKOSOL AQ**[®]

BECKOSOL AQ[®] is a new platform of low VOC alkyd latex resins made from renewable resources. We take conventional alkyd chemistry and emulsify it in water to deliver a unique combination of alkyd performance and regulatory compliance, without the use of solvents. From stains to metal primers, look to Reichhold for premium performing alkyd latex resins that maintain the robust characteristics of solvent-borne alkyds, yet clean up with soap and water.

COMPLIANCE

- Made from renewable resources – vegetable oils
- Low VOC capability
- Requires no coalescing solvent for film formation
- Alkyl Phenol Ethoxylate (APEO) free
- Non-flammable
- TSCA & DSL listed
- Soap & water cleanup

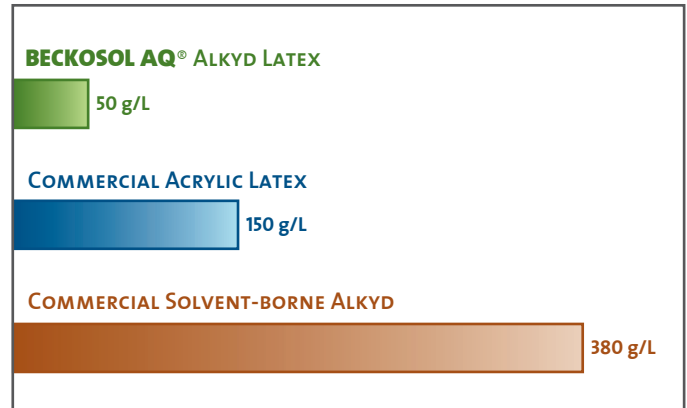
PERFORMANCE

- Flow & appearance of a solvent-borne alkyd
- Multiple gloss levels with one vehicle
- High gloss capability
- Exceptional durability
- Incredible adhesion
- Long-term stability
- No cost or performance tradeoffs

GO ABOVE AND BEYOND LOW VOC

In today's changing market, the BECKOSOL AQ[®] series of resins is Reichhold's answer to the growing need to meet more stringent regulations and performance requirements. The BECKOSOL AQ[®] product line is both low VOC and made from renewable resources, offering an environmentally responsible solution that exceeds market demands for performance and compliance.

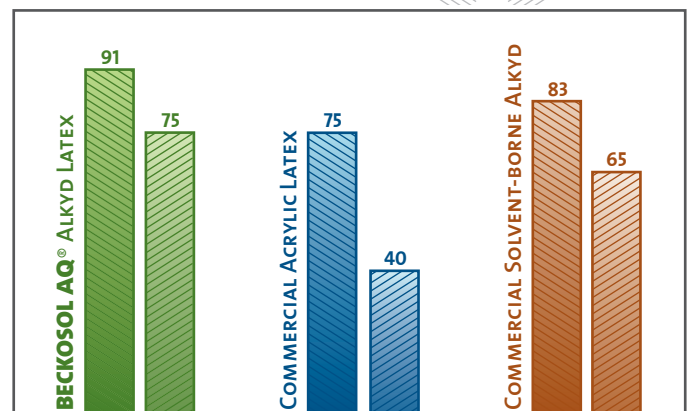
TYPICAL FORMULATED VOC CONTENT



GLOSS CAPABILITY

The BECKOSOL AQ[®] series of resins is capable of achieving very high gloss rivaling a solvent-borne alkyd and far exceeding an acrylic latex. This is especially apparent in the typical 20° gloss values. These resins are also easily flattened for a variety of sheens.

TYPICAL 60° & 20° GLOSS VALUES



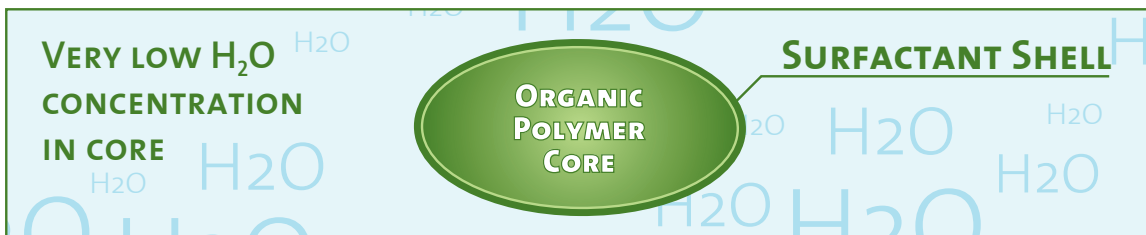
BECKOSOL AQ® PRODUCT LINE

ALKYD LATEX RESIN	RESIN TYPE	% BIOBASED CONTENT	APPLICATION	SUBSTRATE	FEATURE
BECKOSOL AQ® 101	LONG OIL	61	EXTERIOR STAIN	WOOD	PENETRATION
BECKOSOL AQ® 102	LONG OIL	68	WIPING STAIN	WOOD	OPEN TIME
BECKOSOL AQ® 205	MEDIUM OIL	52	GENERAL PURPOSE PRIMER	WOOD	ENAMEL HOLDOUT
BECKOSOL AQ® 206	MEDIUM OIL	42	TRIM ENAMEL	WOOD	COLOR STABILITY & SPEED OF DRY
BECKOSOL AQ® 210	MEDIUM OIL CHAIN-STOPPED	34	INDUSTRIAL PRIMER	METAL	CORROSION RESISTANCE
BECKOSOL AQ® 510	ACRYLIC MODIFIED	50	SEMI-GLOSS	WOOD & ASPHALT	HIGHEST SOLIDS
BECKOSOL AQ® 520	EPOXY MODIFIED	61	SEALER	CONCRETE	WET LOOK

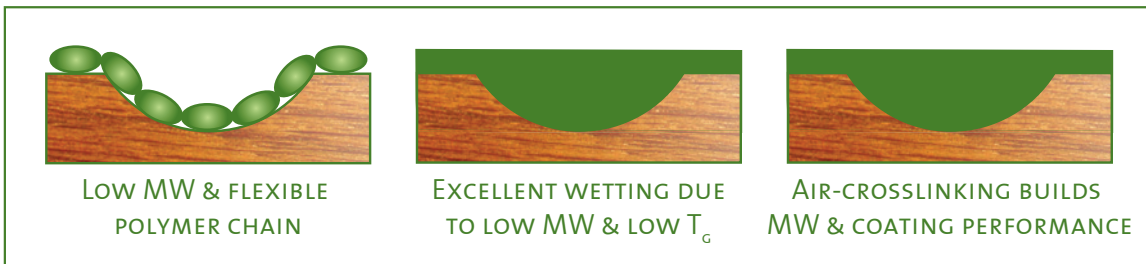
CHEMISTRY & APPEARANCE

The innovative alkyd latex chemistry behind BECKOSOL AQ® brings all the features you expect from an alkyd: ease of application, high gloss and excellent flow and leveling, all without the use of solvents. Alkyd latex chemistry also provides the foundation for a stable resin and formulated coating system. These low molecular weight (MW) and low glass transition temperature (T_g) resins eliminate the need for coalescing solvents and exhibit both a visual and performance advantage compared to acrylic latex alternatives.

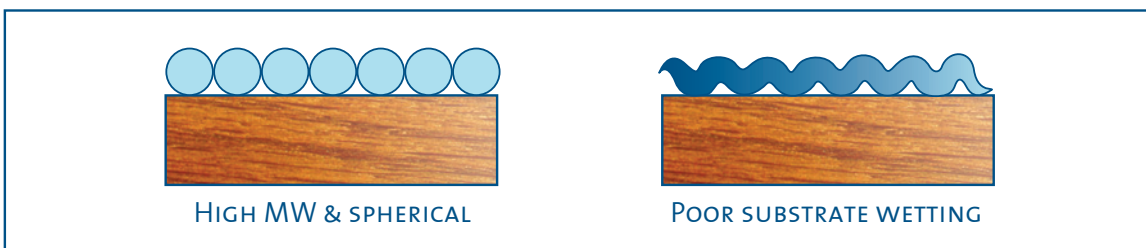
BECKOSOL AQ® CHEMISTRY



BECKOSOL AQ® APPEARANCE

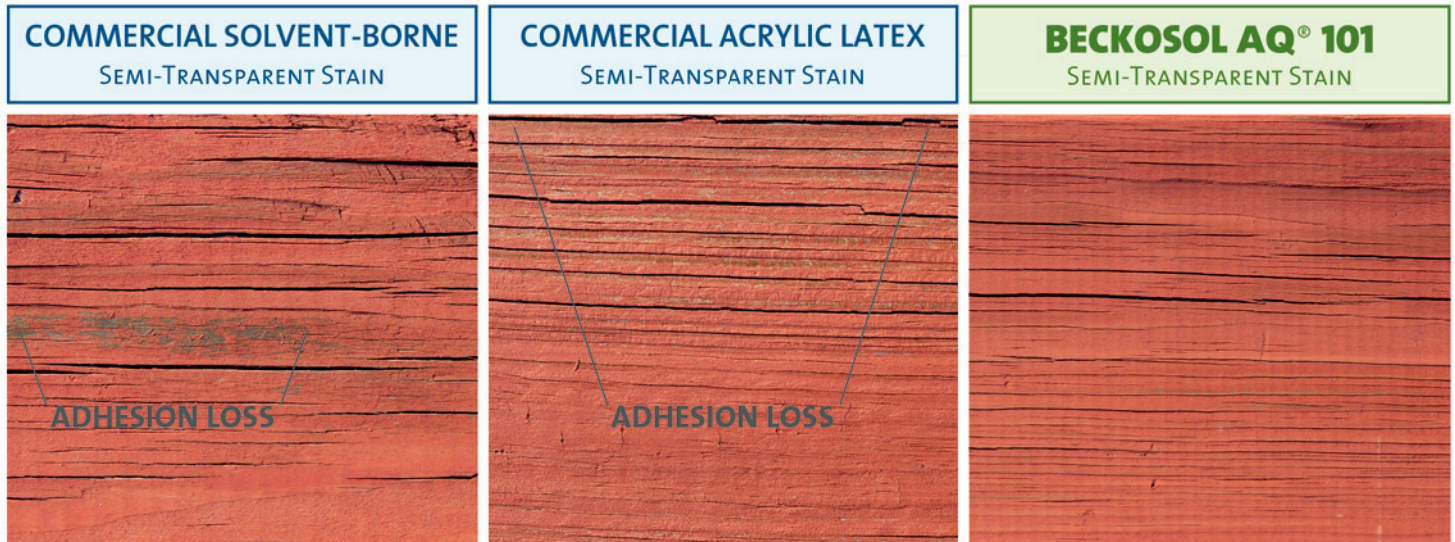


ACRYLIC LATEX APPEARANCE



BECKOSOL AQ[®] 101

BECKOSOL AQ[®] 101 offers outstanding durability in a multitude of applications. After 18 months of exterior horizontal exposure on Copper Azole treated decking, BECKOSOL AQ[®] 101 not only retains the natural warm color of the wood, but it also possesses superior adhesion compared to best-selling commercial solvent-borne and acrylic latex semi-transparent stains. Previous exposure studies of BECKOSOL AQ[®] 101 on wood and cementitious substrates indicate that the eventual film failure is by means of erosion, not flaking, peeling or loss of adhesion.



BECKOSOL AQ[®] 520

BECKOSOL AQ[®] 520 is an epoxy modified alkyd latex designed to provide excellent penetration and substrate wetting, delivering an unparalleled wet look finish for porous concrete surfaces. Sealers formulated with BECKOSOL AQ[®] 520 enhance the natural color of concrete pavers and flagstone without imparting gloss.



BECKOSOL AQ[®] 205

BECKOSOL AQ[®] 205 has been specially designed to protect topcoats from a variety of everyday stains. Primers formulated with BECKOSOL AQ[®] 205 outperform best-selling commercial acrylic latex stain-blocking primers when evaluated per ASTM standard D7514-09.

	COMMERCIAL ACRYLIC LATEX STAIN-BLOCKING PRIMER	TOPCOAT	BECKOSOL AQ [®] 205 STAIN-BLOCKING PRIMER
WATER WASHABLE RED MARKER	4		8
WATER WASHABLE GREEN MARKER	4		8
WATER WASHABLE BLUE MARKER	2		8
YELLOW HIGHLIGHTER	6		8
#2 PENCIL	8		10
PERMANENT RED MARKER	8		8

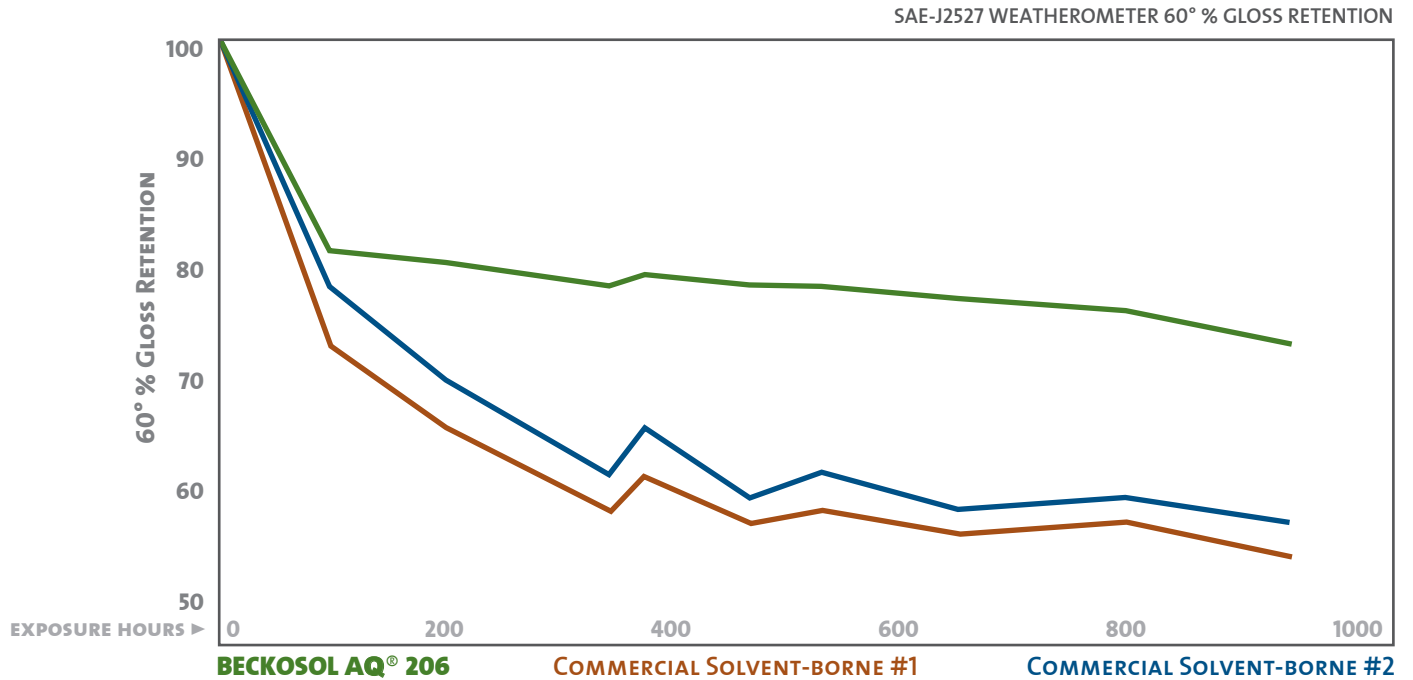
Labels: PRIMER (under Commercial Acrylic Latex and Beckosol AQ 205), TOPCOAT (between columns)

When properly formulated, BECKOSOL AQ[®] 205 offers excellent cure and tannin bleed resistance.



BECKOSOL AQ[®] 206

BECKOSOL AQ[®] 206 is the high gloss, color stable resin you need for exceptional trim finishes. Weatherometer accelerated weathering results are displayed below, where exposure testing consists of alternating cycles of light and condensing humidity per SAE-J2527 test parameters and ASTM standard G153.

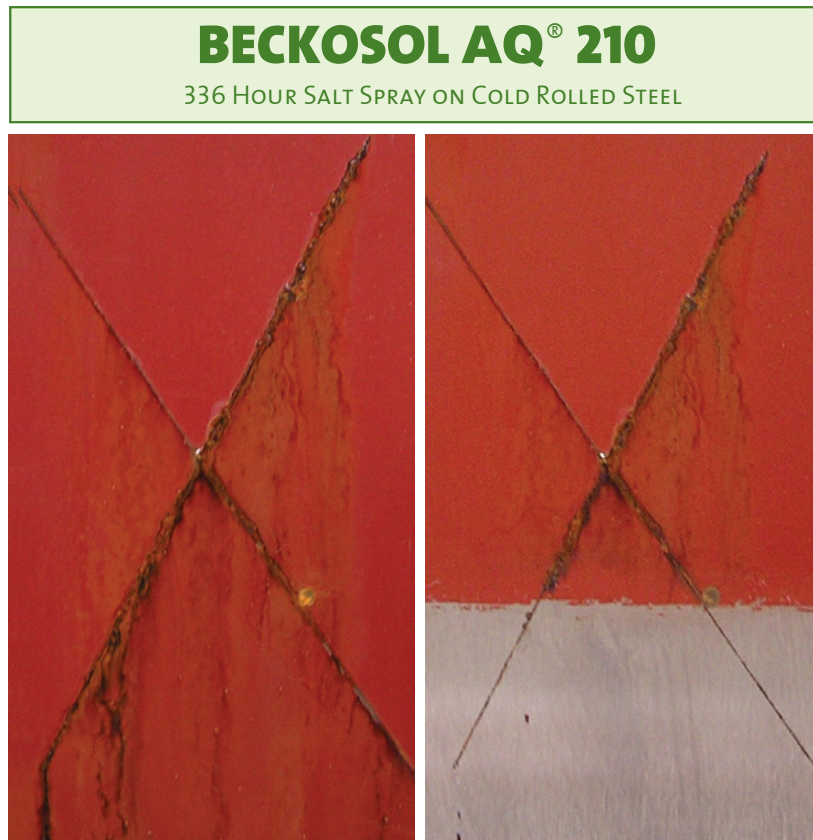


BECKOSOL AQ[®] 206 maintains good color stability in a variety of test conditions and outperforms the leading commercial 380 g/L VOC solvent-borne alkyd for yellowing resistance.

DELTA YI	BECKOSOL AQ [®] 206	COMPETITIVE ALKYD LATEX	COMMERCIAL SOLVENT-BORNE ALKYD W/ZINC OXIDE
DARK STORAGE 5 WEEKS	1.11	1.57	1.10
AMMONIA VAPOR EXPOSURE	1.41	2.06	2.71
HEAT AGED 7 DAYS @ 50°C	4.07	4.58	3.71

BECKOSOL AQ[®] 210

BECKOSOL AQ[®] 210 has excellent adhesion and corrosion resistance over a variety of metal substrates including aluminum, steel and galvanized steel. Furthermore, these systems can be recoated at four hours and exhibit good non-lift properties.



BECKOSOL AQ[®] 210 is stable with reactive pigments and demonstrates outstanding stability, both as a neat resin and formulated paint. In addition to retaining excellent corrosion resistance properties, heat aged paint also maintains a stable viscosity over time. The table below shows the viscosity stability of a red iron oxide primer made with BECKOSOL AQ[®] 210 after storage for four weeks at 50°C.

PRIMER STABILITY	INITIAL	4 WEEKS AT 50°C
VISCOSITY, STORMER, KU	95	100
VISCOSITY, ICI, POISE	0.75	0.65
pH	7.9	7.3

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For more information on Reichhold's complete line of BECKOSOL AQ® products contact your Reichhold sales representative or call the Coatings Technical Support Line at (800) 431-1920.

Reichhold, Inc.
World Headquarters and Technology Center
P.O. Box 13582
Research Triangle Park, NC 27709
(919) 990-7500 (local) or (800) 431-1920 (toll-free)
www.reichhold.com
www.beckosolaq.com

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