

Product Information#

AlberdingkUSA® AC 2403

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What is the resin's nature?

AlberdingkUSA® AC 2403 is a self-crosslinking acrylate dispersion with special adhesion promotion to all metal substrates including galvanized surfaces. It also adheres to plastics and mineral surfaces.

Technical data:

Solids content:	46 – 48 %
pH-value:	7.0 – 8.0
Viscosity:	700 - 3000 mPas
MFFT:	approx. 10 - 30°C
Pendulum hardness	
according to Koenig :	approx. 30 s
Cleveland Humidity Chamber (60°C):	
840 hours	No blisters
QUV (340 nm), 60°	
Initial	76
2000 hours	79
Moisture vapour permeability (g/m ² xd)	14

Why has the resin been developed?

AlberdingkUSA® AC 2403# was specifically developed for aqueous corrosion protection applications, including galvanized surfaces. The outstanding corrosion protection properties of this product are made possible by a highly hydrophobic, steam impervious film. The corrosion tendency of the coating is significantly reduced due to low water absorption and condensation resistance is greatly improved. A very good UV resistance is also achieved, which is an additional benefit to the formulator.

What is the suggested field of application?

- General corrosion protection (Direct-to-Metal)
- Industrial coatings

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Formulation Proposal (pigmented white) Common Paste Grind

Pos.	Raw Materials	Amount	Supplier
1	Water	5.05	
2	Tamol 681	0.79	Dow Chemical
3	Surfynol CT 131	0.20	Air Products
4	Ammonium Hydroxide (28%)	0.20	
5	Foamex 810	0.03	Evonik
6	R-706	21.21	Dupont
	TOTAL	27.50	

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Pos.	Raw Materials	Amount	Supplier
1	Common Paste Grind	27.50	
2	AlberdingkUSA® AC 2403	52.21	Alberdingk Boley Inc.
3	Water	15.91	
4	Texanol	1.82	Eastman Chemical
5	Glycol Ether DPM	1.01	Dow Chemical
6	Ammonium Hydroxide (28%)	0.41	
7	Sodium Nitrite	0.91	
8	RM8W	0.23	Dow Chemical
	TOTAL	100.00	

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Salt Spray Performance

Test Conditions:

- Panels: Cold Roll Steel from Q-Lab (Degreased)
- Coating: Thickness 1.5 mils dry
- Drying: 7 days/RT followed by 500 hours Salt spray according to B117 standard (Continuous spray, 5% Salt solution, 35°C)
- Testing Equipment: Q-Fog



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Formulation Proposal (Anti-corrosion primer, pigmented red)
Common Paste Grind

Pos.	Raw Materials	Amount	Supplier
1	Water	8.00	
2	Agitan 301	0.10	Munzing Chemie
3	DSX 1550	0.10	Cognis
4	Mergal K 10 N	0.20	Troy AG
5	AMP 90	0.15	Angus Chemie
6	Nuosperse FX 600	0.5	Elementis
7	Nuosperse FN 265	0.3	Elementis
8	Additol VXW 4973	0.3	Cytec
9	Ser Ad FA 179	0.15	Sasol Servo BV
10	Heucophos ZP 10	6.40	Heubach
11	Mikrotalc AT extra	6.40	Norwegian Talc
12	Bayferrox 130 M	5.50	Lanxess
13	Millicarb BG	4.00	Omya
TOTAL		32.10	

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Latest update
 October 20, 2010

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The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

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AlberdingkUSA® AC 2403

Pos.	Raw Materials	Amount	Supplier
1	Common Paste Grind	32.10	
2	AlberdingkUSA® AC 2403	47.45	Alberdingk Boley Inc.
3	Water	18.75	
4	Texanol	1.40	Dow Chemical
5	Ammonium Hydroxide (25%)	0.20	
6	DSX 1550	0.10	Cognis
TOTAL		100.00	

Salt Spray Performance (500 hours)



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 Alberdingk Resins (Shenzhen) Co. Ltd. | Shenzhen City, P.R .China | www.alberdingkchina.com
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AlberdingkUSA® AC 2403

Gloss Retention (Accelerated Weathering)

AC2403 compared to competitive products on the market.

