

# Water-based Polyurethane and Acrylate Dispersions

for Flexible Substrates



ALBERDINGK BOLEY

# Water-based Polyurethane and Acrylate Dispersions

**Alberdingk® aqueous polyurethane and acrylate dispersions for use on flexible substrates.**

## **Main applications:**

- › leather
- › synthetic leather
- › textiles
- › plastic films
- › paper

Customer specific requirements need individual solutions. Please contact us for technical support.

For further information please contact us:

[www.alberdingkusa.com](http://www.alberdingkusa.com)

	Genuine Leather	Synthetic Leather	Nylon	PVC	Plastic Films	Textiles	Paper	Bonding/Lamination
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### ALBERDINGK® Acrylic and Styrene Acrylic Copolymers

AC 2389	x	x	x	x				
AC 2523	x	x	x	x	x			
AC 2592	x	x	x	x		x		
DXA.4081				•	•	x	•	

### ALBERDINGK® Aliphatic Polyurethane Dispersions

U 199	x	x	x	x	x	x	x	x
U 205	x	x		x	x	x		
U 216	•			x		•		
U 228	x					x		
U 2101	x	x	x	x	x	x	x	
U 3200				x	x			
U 3251	x	x	x	x	x	x		
U 3700	x	x	x		x			
U 400 N	x	x	x	x	x	x		
U 4000				x	x			
U 410	x	x	x	x		x		
U 4101	x							x
U 475	x	x	x	x	x	x	x	
U 5201	x	x	x	x	x			
U 6100	x			•				
U 6300		x	x	•	x			
U 6800	x	x	x	x	x	x		
U 801	x	x	x	x	x	x		

### ALBERDINGK® Aliphatic Inherently Matte Polyurethanes

PUR MATT 300*	x	x	•	•	x		x	
PUR MATT 340*	x	x	•	•	x		x	

	Solids (%)	Solvent (%)	Viscosity (cps)	pH-Value	MFFT (°C)	Koenig Hardness (sec)	Elongation at Break (%)
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### ALBERDINGK® Acrylic and Styrene Acrylic Copolymers

AC 2389	53–55	0	20–200	8.0–9.0	0	–	–
AC 2523	47–49	0	500–4000	7.5–8.5	0	46	–
AC 2592	34–36	0	20–200	7.5–8.5	0	–	–
DXA.4081	48–50	0	100–800	6.5–7.5	5	–	1000

### ALBERDINGK® Aliphatic Polyurethane Dispersions

U 199*	59–61	0	200–1000	7.5–9.5	0	25	850
U 205	39–41	0	20–200	7.0–8.0	0	30	600
U 216	59–61	0	20–300	7.5–9.0	0		650
U 228	59–61	0	200–1000	7.5–9.5	0		450
U 2101	59.5–61.5	0	600–1400	7.5–9.5	0	30	800
U 3200	31–33		10–200	7.0–8.5	0		900
U 3251	39–41	0	20–200	7.0–8.0	0	30	650
U 3700	35–37	0	20–200	8.0–10.0	0	31	600
U 400 N	39–41	0	20–200	7.0–8.0	0	35	500
U 4000	27–29	0	20–200	8.0–9.5	0		650
U 410	39–41	3,9	20–200	7.0–8.0	–	10	–
U 4101	39–41	0	50–750	7.0–8.5	0		1400
U 475	39–41	0	50–300	7.5–8.5	0	30	850
U 5201	39–41	0	20–300	7.0–8.5	0	30	500
U 6100	35–37	0	20–200	7.5–9.0	0	50	300
U 6300	32–34	0	20–2000	7.5–8.5	0	50	350
U 6800	32–34	0	20–200	8.0–9.5	0	45	500
U 801	39–41	5,5	30–200	7.0–8.0	0	80	300

### ALBERDINGK® Aliphatic Inherently Matte Polyurethanes

PUR MATT 300*	41–43	0	200–1800	7.0–9.0	10	–	750
PUR MATT 340*	39–41	0	20–500	7.0–9.0	10	–	100

\* new development

## ALBERDINGK® Acrylic and Styrene Acrylic Copolymers

AC 2389	An aqueous, coarse particle size, low viscous copolymer-dispersion from acrylic and methacrylic acid esters and without plasticizers. Extreme flexibility and cold resistance
AC 2523	A self crosslinking, multiphase acrylic dispersion that can be used to produce zero VOC high gloss coatings. It has good block resistance and low water absorption
AC 2592	A highly flexible hydroxy functional acrylic dispersion used in two component »Soft-Feel« coatings with very good chemical resistance
DXA.4081	Resin with unique flexibility and memory effect; good water resistance, tear resistant and tack free

## ALBERDINGK® Aliphatic Polyurethane Dispersions

U 199*	High solid PUD, very soft film, high elongation, label-free version of Alberdingk® U 2101
U 205	An aqueous, anionic dispersion of an aliphatic polyether-polyurethane without solvents and free isocyanate groups, excellent high heat and humidity stability
U 216	Coating systems with good hydrolysis-stability for the leather, textile and plastic industry
U 228	Soft, aliphatic polyether polyurethane PUD for flat roof coatings, or also for soft and flexible coating systems e.g. leather, textile and plastics
U 2101	An inherently matte solvent-free aliphatic polyester polyurethane dispersion. It has high solids, extreme flexibility and a »Soft Feel« when properly formulated
U 3200	For leather and plastic coatings with outstanding hydrolysis resistances
U 3251	Solvent-free aliphatic polyester polyurethane with superior flexibility and excellent adhesion to multiple substrates. Excellent Xenon stability
U 3700	Superior hydrolysis-resistance, especially suitable for car-interior leather coatings
U 400 N	Excellent hydrolysis resistance, for artificial leather and pigment printing
U 4000	Highly suitable as primer on plastic substrates (e.g. corona treated BOPP), the polymer film can be easily recoated with other materials
U 410	An aqueous, anionic dispersion of an aliphatic polyether-polyurethane without solvents and free isocyanate groups, excellent high heat and humidity stability
U 4101	Solvent free version of U 410, soft polyether-PU with very good adhesion to different substrates, high hydrolysis resistance, NMP-free
U 475	More flexible version of ALBERDINGK® U 5201, Polyester-PUD with very good hydrolysis resistance, for high quality topcoats
U 5201	Aliphatic polyester polyurethane with superior flexibility and excellent adhesion to multiple substrates, excellent Xenon and high heat stability
U 6100	Plasticiser barrier on flexible PVC, good adhesion to various substrates, excellent aluminum pigment orientation, high in-can-clarity
U 6300	Very good adhesion to ABS, PC, PVC, PU, PA and PS. Very good pigmentability. Good plasticizer barrier on PVC foils
U 6800	Very good adhesion to multiple substrates, good weathering- and aging-resistance, high gloss
U 801	Excellent chemical resistance, excellent abrasion resistance, excellent block resistance, excellent exterior durability

## ALBERDINGK® Aliphatic Inherently Matte Polyurethanes

PUR MATT 300*	Inherently matte, soft-feel PUD, good chemical resistance, hydrolysis resistant, recommended for OPVs, plasters and paints
PUR MATT 340*	Inherently matte, soft-feel PUD, good chemical and hydrolysis resistances, high optical transparency on dark substrates, recommended for OPVs and plastics

**Exemption clause:**

The aforesaid information is based on our present state of knowledge and shall inform on our products and their application possibilities. It is not intended to assure certain characteristics of the products and their suitability for precise application fields. Please consider possible industrial property rights.



**Alberdingk Boley, Inc.** | 6008 West Gate City Blvd | Greensboro NC 27407-7009 | USA  
Phone +1-336/454-5000 | Fax +1-336/454-5007 | [info@alberdingkusa.com](mailto:info@alberdingkusa.com)  
[www.alberdingkusa.com](http://www.alberdingkusa.com)

**Alberdingk Boley GmbH** | Düsseldorf Str. 53 | 47829 Krefeld | Germany  
Tel +49 2151 528-0 | Fax +49 2151 573643 | [info@alberdingk-boley.de](mailto:info@alberdingk-boley.de)  
[www.alberdingk-boley.de](http://www.alberdingk-boley.de)

**Alberdingk Resins (Shenzhen) Co., Ltd.** | (West) 1st/2nd Floor | Building D  
Huanyu Industrial Park | Xuefu Road | Xingwei | Huangtian | Xixiang  
Bao'an District | Shenzhen | Guangdong Province | 518128 | P. R. China  
Phone +86-755-29966997 | Fax +86-755-29966700 | [info@alberdingkchina.com](mailto:info@alberdingkchina.com)  
[www.alberdingkchina.com](http://www.alberdingkchina.com)

