

Solvent-free Polyurethane Dispersions

for Surface Coatings



Solvent-free Polyurethane Dispersions

Alberdingk® water-based polyurethane dispersions are based on polyether, polyester, polycarbonate and natural castor and linseed oil polyols for high quality surface coatings.

Main applications:

- › wood
- › plastics
- › metal
- › textiles
- › leather

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

For further information please contact us:

www.alberdingkusa.com

	Architectural Coatings	Exterior Wood Coatings	DIY Varnishes	Wood Flooring	Sports Flooring	Enamels	Industrial Coatings	Furniture	PVC	Soft-feel	General Plastics	Automotive Basecoats	Flexible Substrates
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ALBERDINGK® Aliphatic Polyurethane Dispersions

UAF 850				X			•	X					
U 199	X						X			X	X		
U 205		•							•				X
U 216							X			X	X		X
U 228											X		X
U 2101										X	X		X
U 3200						X	X				X		X
U 3251	X	X	X	X						•	X	•	X
U 3700										X			X
U 400 N		X											
U 475										X			X
U 4000											X		X
U 4040											X		
U 5201	X	X	X			X	X				X		X
U 6100	•						X		•		X	X	
U 6150		•	X	X	•	X	X		X		X	X	
U 6300							X				X	X	
U 6800							X				X		
U 7500			X	X							•		
U 7800	X		X	X	•	•							
U 8001	X	X	X	X		X		X	•		•	•	
U 9000				•			X				X		
U 9150				X	X			•	•		•		
U 9190							X	•			X		
U 9270				X	X	X	X						
U 9350	•			X			X	X	X				
U 9380				X	X	•	X		X		X		
U 9800			•	X	X	•	X	X	X		X		
U 9900	X			X	X	X	X	X	X				

ALBERDINGK® Aliphatic Polyurethane Dispersions

PUR MATT 300	X	X		X	X					X			
PUR MATT 340										X			
PUR MATT 970	X	X		X	X	X							

X recommended • possible * new development

	Solids (%)	Viscosity (cps)	pH-Value	MFFT (°C)	Koenig Hardness (sec)	Elongation at Break (%)	Type	Neutralization
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ALBERDINGK® Aliphatic Polyurethane Dispersions

UAF 850	39–41	20–200	7.0–8.5	25	104		PES/PU	Ammonia
U 199	59–61	200–1000	7.5–9.5	0	25	850	PES/PU	TEA
U 205	39–41	20–200	7.0–8.0	0	30	600	PE/PU	TEA
U 216	59–61	20–300	7.5–9.0	0		650	PES/PU	TEA
U 228	59–61	200–1000	7.5–9.5	0		450	PE/PU	TEA
U 2101	59.5–61.5	600–1400	7.5–9.5	0	30	800	PES/PU	TEA
U 3200	31–33	10–200	7.0–8.5	0	18	900	PC/PU	TEA
U 3251	39–41	20–200	7.0–8.0	0	30	650	PES/PU	TEA
U 3700	35–37	20–200	8.0–10.0	0	31	600	PC/PU	TEA
U 400 N	39–41	20–200	7.0–8.0	0	35	500	PE/PU	NEM
U 475	39–41	50–300	7.5–8.5	0	40	850	PES/PU	TEA
U 4000	27–29	20–200	8.0–9.5	0	–	650	PES/PU	TEA
U 4040	44–46	100–1000	7.0–8.0	0	–		PE/PU	NEM
U 5201	39–41	20–300	7.0–8.5	0	30	500	PES/PU	TEA
U 6100	35–37	20–200	8.0–9.0	0	50	300	PES/PU	DMEA
U 6150	37–39	50–500	7.5–9.0	0	70	200	PC/PU	DMEA
U 6300	32–34	20–2000	7.5–8.5	0	50	350	PES/PU	DMEA
U 6800	32–34	20–200	8.0–9.5	0	45	500	PC/PU	TEA
U 7500	33–35	20–200	7.0–9.0	13	80	276	PES/PU	TEA
U 7800	39–41	20–300	7.5–8.5	5	80	500	PES/PU	TEA
U 8001	39–41	20–200	7.0–8.0	6	90	70	PES/PU	TEA
U 9000	29–31	200–2000	7.0–8.5	0	130	300	PES/PU	TEA
U 9150	34–36	20–300	8.0–9.0	5	100	30	PES/PC/PU	DMEA
U 9190	34–36	20–300	7.5–8.5	14	130	120	PC/PU	TEA
U 9270	40–42	30–500	8.0–9.0	46	142		PES/PU	TEA
U 9350	29–31	10–300	7.5–8.5	0	130		PES/PU	TEA
U 9380	31–34	10–250	7.5–9.0	25	130	50	PES/PU	TEA
U 9800	34–36	20–300	8.0–9.0	40	100	22	PES/PU	DMEA
U 9900	39–41	100–400	7.5–9.0	50	160		PES/PU	TEA

ALBERDINGK® Aliphatic Polyurethane Dispersions

PUR MATT 300	41–43	200–1800	7.0–9.0	10	–	750	–	TEA
PUR MATT 340	39–41	20–500	7.0–9.0	10	–	750	–	TEA
PUR MATT 970	34–36	20–2000	7.0–9.0	30	–	100	–	TEA

* new development PC polycarbonate PES polyester PE polyether TEA Triethylamine DMEA Dimethylethanolamine

ALBERDINGK® Aliphatic Polyurethane Dispersions

UAF 850	Self-crosslinking, amine- and solvent-free polyurethane dispersion with high surface hardness and good chemical resistance.
U 199	High solids PUD, very soft film, high elongation, label-free version of ALBERDINGK® U 2101
U 205	Very good hydrolysis resistance, good exterior durability
U 216	Coating systems with good hydrolysis stability for the leather, textile and plastic industry
U 228	High solids PUD, superior hydrolysis resistance
U 2101	Excellent flexibility, excellent adhesion to multiple substrates, suitable for a variety of soft-feel applications
U 3200	For leather and plastic coatings with outstanding hydrolysis resistances
U 3251	Solvent free version of U 325, excellent flexibility, good exterior durability, excellent adhesion to multiple substrates, suitable for credit card lamination
U 3700	Superior hydrolysis resistance, especially suitable for car interior leather coatings
U 400 N	For 1- and 2- component adhesives (80–100°C) with a high water resistance, the main applications are laminating of textile, wood and foils; excellent adhesion to glass
U 475	More flexible version of ALBERDINGK® U 5201, Polyester-PUD with very good hydrolysis resistance, for high quality topcoats
U 4000	Highly suited as a primer on plastic substrates (e. g. corona treated BOPP), polymer film can be easily recoated with other materials
U 4040	Primer with good adhesion to leather, textile and plastic as well as a combination dispersion for adhesive acrylic dispersions, particularly suitable as a primer for shoe soles
U 5201	Excellent water resistance, excellent exterior durability, excellent flexibility, suitable for high quality leather and textile coatings
U 6100	Plasticizer barrier on flexible PVC, good adhesion to various substrates, excellent aluminum pigment orientation, high in-can-clarity
U 6150	Solvent free version of U 615, outstanding water resistance, excellent adhesion to multiple substrates, high gloss potential, excellent in-can clarity, excellent chemical resistance
U 6300	Very good adhesion on plastics, very good pigmentability, suitable for automotive base coats if combined with acrylic dispersions, good plasticizer barrier on PVC-foils
U 6800	Due to its good adhesion properties, highly suitable for plastics and metal coatings, extremely water resistant/hydrophobic
U 7500	For high quality 1K- and 2K lacquers for hardwood flooring
U 7800	High-quality single and two-pack wood coatings, very high chemical resistance, excellent clarity on wood, good abrasion resistance, especially suitable for formulations with very low VOC-content
U 8001	Solvent free version of ALBERDINGK® U 801, outstanding water and block resistance, workhorse PU-dispersion for exterior and interior applications, good adhesion to difficult substrates
U 9000	For metal pre-treatment with very good corrosion resistance and excellent chemical resistance
U 9150	Solvent free version of U 915, suitable for 2 component wood floor coatings with very high hardness and superior abrasion resistance, high in-can clarity
U 9190	Aqueous, colloidal, low viscosity dispersion of an aliphatic polycarbonate polyurethane without free isocyanate groups, for high quality 2 pack wood and plastic coatings
U 9270	Excellent film hardness and chemical and stain resistance, suitable for one component wood floor finishes (MFMA compliant), excellent black heel mark resistance, high gloss potential, outstanding blocking resistance
U 9350	Extremely hard PU-dispersion, universal type for transparent and pigmented systems, especially suitable for enamels
U 9380	Excellent surface hardness, excellent flexibility, outstanding adhesion to multiple substrates, excellent chemical resistance
U 9800	Excellent chemical and stain resistance, excellent hot water resistance, excellent adhesion to multiple substrates
U 9900	Extremely hard, self-crosslinking PU-dispersion, universal type for transparent and pigmented systems, especially suitable for enamels

ALBERDINGK® Aliphatic Polyurethane Dispersions

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
PUR MATT 970	Inherently matte, hard PUD, excellent sanding properties, high chemical resistance

* new development

USA

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.



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