

# Water-based Polyurethane Dispersions

for Surface Coatings



# Water-based 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](http://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**

DUR 95				X				X			X		
U 042											X		X
U 180													X
U 205		•							•				X
U 2101										X	X		X
U 3100	X	X	X	X					X	X	X		X
U 325	X		X								X	•	X
U 3251	X	X	X	X						•	X	•	X
U 3700*										X			X
U 410													X
U 475*										X			X
U 5201	X	X	X			X	X				X		X
U 615		X	X	X	X			X			X		
U 6100*	•						X		•		X	X	
U 6150		•	X	X	•	X	X		X		X	X	
U 7800*	X		X	X		X	X	X					
U 801	X	X	X	X		X	X						X
U 8001	X	X	X	X		X		X	•		•	•	
U 910			X	X	X	X		X			X		
U 915			X	X	X			X					
U 9150				X	X			•	•		•		
U 933			X	X		X		X			X		
U 9350*	•			X			X	X	X				
U 9370				X	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				

X recommended • possible \* new development

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

DUR 95	30–33	0	50–500	6.0–8.0	0	–	–	PES	TEA
U 042	33–37	15	50–500	7.0–9.0	0	–	275	PC	TEA
U 180	47–50	0	10–500	6.5–8.0	0	15	–	PES	amino sulfonic acid
U 205	39–41	0	20–200	7.0–8.0	0	30	600	PE	TEA
U 2101	59.5–61.5	0	600–1400	7.5–9.5	0	30	800	PES	TEA
U 3100	31–33	0	20–200	7.5–9.5	0	30	800	PES	TEA
U 325	39–41	2.5	20–200	7.5–9.5	0	–	650	PES	TEA
U 3251	39–41	0	20–200	7.0–8.0	0	30	650	PES	TEA
U 3700*	35–37	–	20–200	8.0–10.0	0	–	600	PC	TEA
U 410	39–41	3.9	20–200	7.0–8.0	–	10	–	PE	4-ethyl morpholine
U 475*	39–41	–	50–300	7.5–8.5	0	40	850	PES/PU	–
U 5201	39–41	0	20–300	6.5–7.5	0	30	500	PES	TEA
U 615	38–40	6.5	50–500	7.5–8.5	0	80	250	PC	DMEA
U 6100*	35–37	–	20–200	8.0–9.0	0	50	–	PES/PU	DMEA
U 6150	37–39	0	50–500	7.5–9.0	0	70	200	PC	DMEA
U 7800*	39–41	0	20–300	7.5–8.5	0	80	–	PES	TEA
U 801	39–41	5.5	30–200	7.0–8.0	0	80	300	PES	DMEA
U 8001	39–41	0	20–200	7.0–8.0	6	90	70	PES	TEA
U 910	29–31	12	30–100	7.5–8.5	0	155	60	PES	TEA
U 915	33–35	10	30–100	7.5–8.5	0	115	–	PES/PC	DMEA/TEA
U 9150	34–36	0	20–300	8.0–9.0	5	100	30	PES/PC	DMEA
U 933	34–36	10	20–300	7.0–8.5	0	130	160	PC	TEA
U 9350*	29–31	0	10–300	7.5–8.5	0	130	–	PES/PU	TEA
U 9370	29–31	0	10–300	7.5–8.5	32	130	180	PES	TEA
U 9380	31–34	0	100–3000	8.0–9.0	25	130	50	PES	TEA
U 9800	34–36	0	20–300	8.0–9.0	40	100	22	PES	DMEA
U 9900*	39–41	0	30–300	7.5–9	50	160	–	PES/PU	TEA

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

## ALBERDINGK® Aliphatic Polyurethane Dispersions

DUR 95	OH-functional PU dispersion, very hard, high scratch resistance and very high chemical resistance, good adhesion on difficult substrates, fast curing
U 042	Excellent hydrolysis resistance, excellent flexibility, outstanding color-fastness, high heat stability, excellent mechanical stability, excellent solvent resistance, excellent adhesion
U 180	Excellent compatibility with flame retardants, excellent adhesion to multiple substrates
U 205	Very good hydrolysis resistance, good exterior durability
U 2101	Excellent flexibility, excellent adhesion to multiple substrates, suitable for a variety of soft-feel applications
U 3100	Soft polymer with excellent flexibility, very good block resistance, suitable for soft-feel coatings on leather and textiles, good chemical resistance
U 325	Excellent low temperature flexibility, excellent block and mar resistance, suitable for use in metallic basecoats, improves stone chip resistance
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 410	Excellent adhesion to multiple substrates, excellent adhesion promoter
U 475*	More flexible version of ALBERDINGK® U 5201, Polyester-PUD with very good hydrolysis resistance, for high quality topcoats
U 5201	Excellent water resistance, excellent exterior durability, excellent flexibility, suitable for high quality leather and textile coatings
U 615	Excellent flexibility, excellent chemical resistance, excellent abrasion resistance, very good exterior durability, excellent adhesion to multiple substrates
U 6100*	Plasticiser 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 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 801	Excellent chemical resistance, excellent abrasion resistance, excellent block resistance, excellent exterior durability
U 8001	TEA-neutralized, solvent-free version of U 801, outstanding water and block resistance, workhorse PU-dispersion for exterior and interior applications, good adhesion to difficult substrates
U 910	Excellent chemical and plasticizer resistance, high surface hardness and gloss potential, excellent adhesion to multiple substrates, and self-crosslinking
U 915	Excellent abrasion resistance, outstanding hardness development, high gloss potential, suitable for 2 component wood floor coatings
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 933	Excellent surface hardness, excellent chemical resistance, excellent water resistance, high gloss potential, good flexibility
U 9350*	Extremely hard PU-dispersion, universal type for transparent and pigmented systems, especially suitable for enamels
U 9370	Excellent surface hardness, excellent flexibility, outstanding chemical resistance, excellent abrasion resistance, suitable for clear and pigmented coatings, excellent adhesion to VCT
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

\* new development

**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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