

Solvent-free Polyurethane Dispersions

for surface coatings



	Paints	Architectural Coatings	Exterior Wood Coatings	DIY-Varnishes	Parquet Varnishes	Sports Flooring	Cork	High Gloss Enamels	Industrial Coatings	Metal	Furniture	Window Frames	Softfeeling	Plastics	Automotive: Basecoats
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ALBERDINGK® Aliphatic Polyurethanes

U 9380					X	X		•	X		X			X	
U 9700					X									X	
U 9800					X	X		•	X		X			X	
U 9900					X			X	X		X			X	

ALBERDINGK® Aliphatic Oil-based Polyurethanes

CUR 991		X			X				X		X				•
LUR 3		X	X												
LUR 10*					X					X					

ALBERDINGK® Aliphatic Inherent Matt Polyurethanes

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

ALBERDINGK® Amine-free Polyurethanes (AFU)

AFU 850*		X		X	X				X						
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ALBERDINGK® Copolymer/ Aliphatic Polyurethanes

UC 80									X	X					
UC 84			X		X				X	X	X				
UC 8400*											X				
UC 8600*											X				
UC 90			X		X				X						

ALBERDINGK® Waterbased Carbodiimide-Crosslinker

ALBOLink CD 20*			X	X	X				X	X			X		
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	Solids [%]	Viscosity Brookfield [mPas]	pH-Value	Elongation at Break [%]	MFFT [°C]	Hardness König [s]	Type	Neutralization
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ALBERDINGK® Aliphatic Polyurethanes

U 9380	31,0–34,0	10–250	7,5–9,0		25	130	PES/PU	TEA
U 9700	34,0–36,0	20–200	7,5–8,5		35	130	PES/PU	TEA
U 9800	34,0–36,0	20–300	8,0–9,0	250	40	100	PES/PU	DMEA
U 9900	39,0–41,0	20–200	7,5–9,0		50	160	PES/PU	TEA

ALBERDINGK® Aliphatic Oil-based Polyurethanes

CUR 991	29,0–31,0	20–100	7,0–8,0	120	40	85	CO	TEA
LUR 3	34,0–36,0	20–400	7,5–8,5		0	90	LO	TEA
LUR 10*	34,0–36,0	20–200	7,5–8,5	180	21		LO	TEA

ALBERDINGK® Aliphatic Inherent Matt Polyurethanes

PUR MATT 300*	41,0–43,0	200–1800	7,0–9,0	750	10			TEA
PUR MATT 340*	39,0–41,0	20–500	7,0–9,0	750	10			TEA
PUR MATT 970*	34,0–36,0	20–2000	7,0–9,0	100	30			TEA

ALBERDINGK® Amine-free Polyurethanes (AFU)

AFU 850*	39,0 - 41,0	20 - 200	7,0 - 8,5		25		PES/PU	NH3
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ALBERDINGK® Copolymer/ Aliphatic Polyurethanes

UC 80	34,0–36,0	20–200	7,0–8,0		35	100	PES/PU/AC	NEM
UC 84	34,0–36,0	20–200	7,5–8,5		42	105	PC/PU/AC	TEA
UC 8400*	39,0 - 41,0	20 - 200	7,0 - 8,5	120	50		PES/PU/AC	NEM
UC 8600*	39,0 - 41,0	20 - 200	7,0 - 8,5	160	48		PC/PU/AC	TEA
UC 90	34,0–36,0	20–200	7,5–8,5		35	130	PES/PU/AC	TEA

ALBERDINGK® Waterbased Carbodiimide-Crosslinker

ALBOLink CD 20*	19,0–21,0	20–200	8,0–10,0					
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ALBERDINGK® Aliphatic Polyurethanes

U 9380	Hardest PU-dispersion with good flexibility, outstanding adhesion properties, high chemical resistance
U 9700	Very hard PU-dispersion with very fast hardness development, outstanding adhesion to primers, recommended for wood flooring
U 9800	Hard PU-dispersion, superior chemical resistance, good hot water resistance in two-pack systems, suitable for vinyl flooring
U 9900	Extremely hard PU-dispersion, universal type for transparent and pigmented systems, especially suitable for enamels

ALBERDINGK® Aliphatic Oil-based Polyurethanes

CUR 991	Good wood warming, excellent black heel mark resistance, very good abrasion resistance, in-can-clarity
LUR 3	Physically and/or oxidatively drying, outstanding appearance on wood and very high gloss, very good weathering resistance combined with excellent gloss retention
LUR 10*	For high quality hardwood floor and furniture coatings

ALBERDINGK® Aliphatic Inherent Matt Polyurethanes

PUR MATT 300*	Inherent matt, softfeel PUD, good chemical resistance, hydrolysis resistant, recommended for OPV's and plastic coatings
PUR MATT 340*	Like Alberdingk® PUR MATT 300 but with direct adhesion to corona treated BOPP and other plastics
PUR MATT 970*	Inherent matt, hard PUD, excellent sanding properties, high chemical resistance, recommended for plastic- and wood coatings, paints and plasters

ALBERDINGK® Amine-free Polyurethanes (AFU)

AFU 850*	Universal PUD with excellent combination of hardness and chemical resistance, very neutral colour on wood
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ALBERDINGK® Copolymer/ Aliphatic Polyurethanes

UC 80	For environment-friendly coating systems for wood, plastics and metal with good surface hardness, abrasion resistance, gloss, water and chemical resistance
UC 84	For environment-friendly coating systems for wood, plastics and metal, good surface hardness, abrasion resistance, gloss, water and chemical resistance
UC 8400*	Very high hardness and blocking resistance, excellent hand fat- and chemical resistance, highly scratch resistant, ideal combination partner for waterbased acrylics and UV-curable dispersions
UC 8600*	Optimised for the use in pigmented coating systems with outstanding stain and chemical resistance, very good hand-fat and -lotion resistance as well as a very scratch resistant surface
UC 90	For environment-friendly coating systems for wood, plastics and metal with good surface hardness, abrasion and blocking resistance, water and chemical resistance

ALBERDINGK® Waterbased Carbodiimide-Crosslinker

ALBOLink CD 20*	Crosslinker for all kind of waterbased polymers (acrylic, polyurethane and urethanecopolymer dispersions)
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* new development

	Paints	Architectural Coatings	Exterior Wood Coatings	DIY-Varnishes	Parquet Varnishes	Sports Flooring	Cork	High Gloss Enamels	Industrial Coatings	Metal	Furniture	Window Frames	Softfeeling	Plastics	Automotive: Basecoats
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ALBERDINGK® Aliphatic Polyurethanes

U 180*									X				•		
U 199*	X								X				X	X	
U 205									X				X	X	
U 216*	X								X				X	X	
U 228*	X								X				X	X	
U 3200*							X		X					X	
U 3251		X			X		X						•	X	•
U 400 N	X		X												
U 475		X	X	X		X	X	X	X			X	X	X	X
U 4000*														X	
U 4040*														X	
U 4101														X	
U 5200		X							X		X			X	
U 5201			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				X	
U 7500*				X	X	X								•	
U 7800		X		X	X	•		•							
U 8001		X	X	X	X			X	X		X	X		X	•
U 9000*					X				X	X	X			X	
U 9150					X	X	•				•			•	X
U 9160											X			X	
U 9190								X				X		X	

X recommended • possible * new development

	Solids [%]	Viscosity Brookfield [mPas]	pH-Value	Elongation at Break [%]	MFFT [°C]	Hardness König [s]	Type	Neutralization
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ALBERDINGK® Aliphatic Polyurethanes

U 180*	49,0–51,0	50–800	6,5–8,5	1000	0	10	PES/PU	EDA
U 199*	59,0–61,0	200–1000	7,5–9,5	850	0	25	PES/PU	TEA
U 205	39,0–41,0	20–200	7,0–8,0	750	0	30	PE/PU	TEA
U 216*	59,0–61,0	20–300	7,5–9,0	650	0		PES/PU	TEA
U 228*	59,0–61,0	200–1000	7,5–9,5	450	0		PE/PU	TEA
U 3200*	31,0–33,0	10–200	7,0–8,5	900	0		PC/PU	TEA
U 3251	39,0–41,0	20–200	7,0–8,0	650	0	30	PES/PU	TEA
U 400 N	39,0–41,0	20–200	7,0–8,0	500	0	35	PE/PU	NEM
U 475	39,0–41,0	50–300	7,5–8,5	850	0	30	PES/PU	TEA
U 4000*	27,0–29,0	20–200	8,0–9,5	650	0			TEA
U 4040*	44,0–46,0	100–1000	7,0–8,0		0		PE/PU	NEM
U 4101	39,0–41,0	50–750	7,0–8,5	1400	0		PE/PU	NEM
U 5200	38,0–40,0	20–500	7,5–8,5	300	2	40	PES/PU	TEA
U 5201	39,0–41,0	20–300	7,0–8,5	500	0	30	PES/PU	TEA
U 6100	35,0–37,0	20–200	8,0–9,0	300	0	50	PES/PU	DMEA
U 6150	37,0–39,0	50–500	7,5–9,0	200	0	60	PC/PU	DMEA
U 6300	32,0–34,0	20–2000	7,5–8,5	350	0	50	PES/PU	DMEA
U 6800*	32,0–34,0	20–200	8,0–9,5	500	0	45	PC/PU	TEA
U 7500*	33,0–35,0	20–200	7,0–9,0		13	80	PES/PU	TEA
U 7800	39,0–41,0	20–300	7,5–8,5	500	0	80	PES/PU	TEA
U 8001	39,0–41,0	20–200	7,0–8,0	70	6	90	PES/PU	TEA
U 9000*	29,0–31,0	200–2000	7,0–8,5	300	0	130	PES/PU	TEA
U 9150	34,0–36,0	20–300	8,0–9,0	100	5	100	PC/PU	TEA
U 9160	32,0–34,0	50–500	7,5–8,5	110		80	PC/PU	TEA
U 9190	34,0–36,0	20–300	7,5–8,5	120	14	130	PC/PU	TEA

* new development

PC polycarbonate

PES polyester

PE polyether

CO castor oil

LO linseed oil

AC acrylate

ALBERDINGK® Aliphatic Polyurethanes

U 180*	High quality coatings for textile impregnation and leather finishing, extrem highly compatible with flame retardant additives and other highly ionic substances
U 199*	For very soft and flexible coating systems on e.g. leather, textile and plastics
U 205	High quality coatings for textile impregnation and leather finishing
U 216*	Coating systems with good hydrolysis-stability for the leather, textile and plastic industry
U 228*	For flat-roof coatings, or also for soft and flexible coatings on e.g. leather, textile and plastics
U 3200*	For leather and plastic coatings with outstanding hydrolysis resistances
U 3251	Flexible multi-purpose PU-dispersion to plasticise acrylic dispersions, good weathering and blocking resistance, suitable for credit card lamination
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
U 475	More flexible version of Alberdingk® U 5201, outstanding water and hydrolysis resistance, excellent weathering
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 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 4101	For highly flexible permanent tacky adhesives, as primer with good adhesion to leather, textile and plastic as well as a combination dispersion for adhesive acrylic dispersions
U 5200	High quality plastic- and metal coatings, paper- and wood coatings, excellent suitable for the leather- and textile-industry, the film has a very good resistance against water-storage
U 5201	High quality coatings for the leather and textile industry, the film has a very good resistance against water storage
U 6100	Very good adhesion on ABS, PC, PVC, PU, PA and PS, very good pigmentability, suitable for automotive basecoats if combined with acrylic dispersions, good plasticizer barrier on PVC-foils
U 6150	Outstanding water resistance and adhesion properties, high gloss, very high in-can-clarity
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 it's 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	Outstanding water and blocking 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	For two-pack parquet varnishes with very high hardness and superior abrasion resistance, high in-can-clarity
U 9160	Coating systems with good chemical and plasticizer resistance, as well as good blendability with acrylic dispersions
U 9190	For high-quality two-pack wood and plastic coatings

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 GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Tel +49 2151 528-0 | Fax +49 2151 573643 | info@alberdingk-boley.de
www.alberdingk-boley.de

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
www.alberdingkusa.com

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
www.alberdingkchina.com