









Dispersions for furniture coatings

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ALBERDINGK BOLEY in a nutshell

 <p>Leading global manufacturer of environmentally friendly water-based binders and oils with unique properties to refine, refurbish, bind and protect multiple types of substrates</p>	 <p>Medium sized, privately owned company</p> <p>> a partner to our customers for more than 250 years</p>	 <p>> 500 employees</p>
 <p>Dynamic, Innovative and flexible</p> <p>Pioneers in biobased polymer dispersions</p>	 <p>Dispersions: Acrylic, Vinyl acetate, Polyurethane and hybrid dispersions</p> <p>Oils: Linseed oil, Castor oil, Derivatives</p>	 <p>Locations:</p> <ul style="list-style-type: none"> • Krefeld, Germany • Kerpen, Germany • Leuna, Germany • Treviso, Italy • Congleton, UK • Greensboro, USA • Shenzhen, China • Zhuhai, China

For more information about ALBERDINGK BOLEY and our product offerings, visit www.alberdingk-boley.de.

Introduction

General furniture coatings can be either transparent or pigmented. Topcoats can also be divided into different technologies as listed below.

Furniture coatings are designed to protect the beauty of the wood from chemicals, stains and mechanical attack. ALBERDINGK BOLEY offers a wide range of products for all kind of furniture coatings.

Transparent furniture coatings

Our very broad portfolio of products for transparent coatings ranges from very low VOC to extremely hard polymers.

ALBERDINGK is a pioneer in offering hand fat resistant polymers and specialised in this field.



Overview

	Sealers	Stains	Topcoats (1-pack)	Topcoats (1- & 2-pack)	Topcoats (2-pack)	Inherent matt	Softtouch	"Unscratchable" Coatings	UV-curable
AC 2570		X							
AC 2592					X		X	X	
AC 2700	X		X	X					
Ren AC 8700	X		X	X					
AC 2742				X					
Ren AC 8742				X					
AC 2765	X								
AC 2782			X						
AC 3600			X						
AC 3630			X						
Ren AC 9630			X						
AC 3650	X		X						
AC 3660			X						
AC 3699					X				
AC 3770					X				
AC 3797					X				
LUR 3		X							
LUX 220									X
LUX 250									X
LUX 399									X
PUR-Matt 310						X	X		
PUR-Matt 910						X			
U 9000			X						
UC 90			X						

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Sealers

ALBERDINGK products with excellent sanding properties and superior „Anfeuerung“ – **ALBERDINGK® AC 3650** is the latest addition to the range with superior “Anfeuerung”.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2765	44.0-46.0	10-300	8.0-9.0	65	Excellent resistances
AC 3650	40.0-42.0	50-500	7.0-8.0	38	Superior „Anfeuerung“

Stains

Alkaline soluble acrylics for stains help to prevent overlapping issues – **ALBERDINGK® LUR 3** is a linseed oil based polyurethane dispersion.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2570	44.0-46.0	10-300	8.0-9.0	65	Alkaline soluble acrylic
LUR 3	34.0-36.0	20-400	7.5-8.5	0	Based on 55% renewable resource (on solids)



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Topcoats

Our polymers are designed to work as sealer / topcoat in case of one product solutions, where a specific sealer is not an option for the applicator.

1-pack

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2700	42.0-44.0	50-500	7.0-8.0	0	Ultra low VOC-demand, good sandability
Ren AC 8700	42.0-44.0	50-4,000	7.0-8.0	4	Biobased acrylic with ultra low VOC-demand, good sandability
AC 2782	47.0-49.0	100-700	8.0-9.0	22	Very high blocking resistance and fast drying
AC 3600	40.0-42.0	20-200	7.5-8.5	0	Very low co-solvent demand, superior blocking resistance, good acetone resistance
AC 3630	40.0-42.0	50-500	8.0-8.5	25	Universal product with excellent balance of properties
Ren AC 9630	40.0-42.0	50-500	7.0-8.5	25	Universal biobased product with excellent balance of properties
AC 3650	40.0-42.0	50-500	7.0-8.0	38	Economic, best „Anfeuerung“
AC 3660	39.0-41.0	20-200	8.0-9.0	55	Very hard acrylic, superior hand fat resistance
UC 90	34.0-36.0	20-200	7.5-8.5	35	Universal copolymer with very good blocking and chemical resistance
U 9000	28.0-30.0	50-1,000	7.0-8.5	0	Most chemical resistant PUD, contains VOC

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1-pack / 2-pack

For 1-pack / 2-pack coatings we recommend products which have very good chemical resistance in 1-pack and reactivity to polyisocyanates.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2700	42.0-44.0	50-500	7.0-8.0	0	Ultra low VOC-demand, good sandability
Ren AC 8700	42.0-44.0	50-4,000	7.0-8.0	4	Biobased acrylic with ultra low VOC-demand, good sandability
AC 2742	47.0-49.0	2,000-4,000	7.5-8.5	45	For 1-pack/2-pack coatings with very good chemical resistance
Ren AC 8742	47.0-49.0	500-4,000	7.5-8.5	44	Biobased acrylic with outstanding stain-, chemical- and hand lotion resistance

2-pack

ALBERDINGK hydroxy-functional primary acrylics are designed to exhibit very high chemical and mechanical resistance combined with a fast cure rate, thanks to the high molecular weight of the polymers.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2592	34.0-36.0	20-200	7.5-8.5	0	For unscratchable and softfeel coatings with high chemical resistance
AC 3699	39.0-41.0	50-500	7.0-8.0	40	For high resistant, fast drying and blocking resistant 2-pack coatings, high OH content
AC 3770	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding resistances and adhesion to multiple substrates
AC 3797	34.0-36.0	20-500	7.5-8.5	17	High chemical resistances

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Inherent matt

Inherent matt PUDs offer a superior combination of matting and mechanical resistance (burnishing resistance).

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
PUR-MATT 310	39.0-42.0	750-2,000	7.0-9.0	10	As blending partner for softfeel coatings (e.g. with AC 2592)
PUR-MATT 910	34.0-36.0	20-2,000	7.0-9.0	15	Hard and chemical resistant matt and ultra matt coatings

Softfeel

Haptic effect coatings with high chemical resistance can be formulated with **ALBERDINGK® AC 2592** and **ALBERDINGK® PUR MATT 310**.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
PUR-MATT 310	39.0-42.0	750-2,000	7.0-9.0	10	As blending partner for softfeel coatings (e.g. with AC 2592)
AC 2592	34.0-36.0	20-200	7.5-8.5	0	Very low Tg acrylic with high chemical resistance

„Unscratchable“ coatings

ALBERDINGK® AC 2592 can be formulated into an unscratchable, matt coating thanks to its special polymer design.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2592	34.0-36.0	20-200	7.5-8.5	0	In combination with CAPA™ 3031 for unscratchable 2-pack coatings

UV-curable

ALBERDINGK offers a wide range of products for UV curing coatings – from medium to high reactivity as well as different molecular weight levels.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
LUX 220	34.0-36.0	20-200	7.0-9.0	0	Highest Mw PUD, hard before cure, superior chemical resistance
LUX 250	39.0-41.0	10-500	6.5-8.0	0	Universal UV cure PUD, easy to wash before UV, workhorse product
LUX 399	44.0-46.0	10-500	6.5-7.5	0	Very versatile, high film-build, reemulsifiable



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Pigmented furniture coatings

Overview

	Primers	Stain locking	Topcoats (1-pack)	Topcoats (1- & 2-pack)	Topcoats (2-pack)	UV-curable
AC 2403	X	X				
Ren AC 8403	X	X				
AC 2420		X				
AC 2714			X			
AC 2742	X		X			
Ren AC 8742	X		X			
AC 2765			X	X		
AC 31					X	
AC 3660			X			
AC 3770					X	
AC 3797					X	
AC 5401		X				
AC 5503	X					
LUX 220						X
LUX 250						X
LUX 481						X

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Primer

Primers for pigmented coatings shall reduce fibre rising or swelling of the substrate by creating a perfect water barrier. Primer based on **ALBERDINGK®**
AC 2742 help to improve stain and chemical resistance of a complete system.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2403	46.0-48.0	200-2,000	8.0-9.0	16	Water barrier, prevents swelling of MDF when overcoated
Ren AC 8403	46.0-48.0	200-2,000	8.0-9.0	20	Biobased acrylic with highest corrosion resistance & universal adhesion
AC 2742	47.0-49.0	2,000-4,000	7.5-8.5	45	For high resistant topcoats
Ren AC 8742	47.0-49.0	500-4,000	7.5-8.5	44	Biobased acrylic with outstanding stain-, chemical- and hand lotion resistance
AC 5503	49.0-52.0	1,000-5,000	7.0-9.0	0	Very low fibre rising on MDF



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Stain locking products

ALBERDINGK stain locking products are using a barrier to ensure perfect finishes without the use of heavy metals or cationic materials.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2403	46.0-48.0	200-2,000	8.0-9.0	16	Water barrier, prevents fibre rising on e.g. MDF
Ren AC 8403	46.0-48.0	200-2,000	8.0-9.0	20	Biobased acrylic as water barrier, prevents fibre rising on e.g. MDF
AC 2420	46.0-48.0	200-3,000	8.0-9.0	20	Harder version of AC 2403, optimized for galvanized surfaces
AC 5401	48.0-50.0	200-1,500	8.0-9.0	5	Economic, good stain blocking properties

Topcoats

Topcoat polymers for pigmented systems have a specific design to ensure excellent pigment wetting/binding which helps to achieve superior stain resistances. **ALBERDINGK® AC 2765** is suitable for IKEA R2 and R0 resistant 1-pack topcoats when applied on top of **ALBERDINGK® AC 2742** based primers.



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1-pack

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2714	43.0-45.0	30-300	8.0-9.0	50	Good stain resistance, high hand fat resistance
AC 2742	47.0-49.0	2,000-4,000	7.5-8.5	45	Excellent stain & coffee resistance, hard and blocking resistant
Ren AC 8742	47.0-49.0	500-4,000	7.5-8.5	44	Biobased acrylic with outstanding stain-, chemical- and hand lotion resistance
AC 2765	44.0-46.0	10-300	8.0-9.0	65	Highest stain resistance level, economic, for IKEA R0 and R2 systems
AC 3660	39.0-41.0	20-200	8.0-9.0	55	Best compromise of stain resistance & blocking resistance

1-pack / 2-pack

Our 1-pack / 2-pack topcoat resins offer excellent stain and solvent resistance in combination with superior mechanical properties.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 2765	44.0-46.0	10-300	8.0-9.0	65	Highest stain resistance level, economic, for IKEA R0 and R2 systems

2-pack

The high Mw functional acrylic and polyurethane dispersions are suitable for very high resistant coatings used in heavy duty applications.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
AC 31	49.0-51.0	300-2,000	7.0-8.0	40	Fast drying, excellent chemical resistances, weathering resistant
AC 3770	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding resistances and adhesion to multiple substrates
AC 3797	34.0-36.0	20-500	7.5-8.5	17	High chemical resistances

UV-curable

ALBERDINGK® LUX-products for pigmented systems are optimized for improved through cure even in difficult colours.

ALBERDINGK® LUX 220 is particularly recommended for very high resistance.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
LUX 220	34.0-36.0	20-200	7.0-9.0	0	Highest chemical resistance, excellent depth-cure
LUX 250	39.0-41.0	10-500	6.5-8.0	0	Workhorse UV PUD for general pigmented coatings
LUX 481	39.0-41.0	10-500	7.0-8.0	0	Excellent stain resistance in pigmented coatings

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