



Dispersions for furniture coatings











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**ALBERDINGK BOLEY in a nutshell**

 <p>Leading international 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>&gt; a partner to our customers for more than 250 years</p>	 <p>&gt; 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"> <li>• Krefeld, Germany</li> <li>• Kerpen, Germany</li> <li>• Leuna, Germany</li> <li>• Treviso, Italy</li> <li>• Congleton, UK</li> <li>• Greensboro, USA</li> <li>• Shenzhen, China</li> <li>• Zhuhai, China</li> </ul>

For more information about ALBERDINGK BOLEY and our product offerings, visit [www.alberdingk-boley.de](http://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.

## 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
<b>AC 2765</b>	44.0-46.0	10-300	8.0-9.0	65	Excellent resistances
<b>AC 3650</b>	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
<b>AC 2575</b>	44.0-46.0	10-300	8.0-9.0	65	Alkaline soluble acrylic
<b>LUR 3</b>	34.0-36.0	20-400	7.5-8.5	0	Based on 55% renewable resource (on solids)





## 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
<b>AC 2700</b>	42.0-44.0	50-500	7.0-8.0	0	Ultra low VOC-demand, good sandability
<b>Ren AC 8700</b>	42.0-44.0	50-4,000	7.0-8.0	4	Biobased acrylic with ultra low VOC-demand, good sandability
<b>AC 2782</b>	47.0-49.0	100-700	8.0-9.0	22	Very high blocking resistance and fast drying
<b>AC 3600</b>	40.0-42.0	20-200	7.5-8.5	0	Very low co-solvent demand, superior blocking resistance, good acetone resistance
<b>AC 3630</b>	40.0-42.0	50-500	8.0-8.5	25	Universal product with excellent balance of properties
<b>Ren AC 9630</b>	40.0-42.0	50-500	7.0-8.5	25	Universal biobased product with excellent balance of properties
<b>AC 3650</b>	40.0-42.0	50-500	7.0-8.0	38	Economic, best „Anfeuerung“
<b>AC 3660</b>	39.0-41.0	20-200	8.0-9.0	55	Very hard acrylic, superior hand fat resistance
<b>UC 90</b>	34.0-36.0	20-200	7.5-8.5	35	Universal copolymer with very good blocking and chemical resistance
<b>UC 8400</b>	39.0-41.0	20-200	7.0-8.5	50	Hard copolymer, economic, with good balance of properties
<b>U 9000</b>	28.0-30.0	50-1,000	7.0-8.5	0	Most chemical resistant PUD, contains VOC





## 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
<b>AC 2700</b>	42.0-44.0	50-500	7.0-8.0	0	Ultra low VOC-demand, good sandability
<b>Ren AC 8700</b>	42.0-44.0	50-4,000	7.0-8.0	4	Biobased acrylic with ultra low VOC-demand, good sandability
<b>AC 2742</b>	47.0-59.0	2,000-4,000	7.5-8.5	45	For 1-pack/2-pack coatings with very good chemical resistance
<b>Ren AC 8742</b>	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
<b>AC 3770</b>	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding resistances and adhesion to multiple substrates
<b>AC 3797</b>	34.0-36.0	20-500	7.5-8.5	17	High chemical resistances
<b>AC 3699</b>	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
<b>AC 2592</b>	34.0-36.0	20-200	7.5-8.5	0	For unscratchable and softfeel coatings with high chemical resistance





## 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
<b>PUR-MATT 310</b>	39.0-42.0	750-2,000	7.0-9.0	10	As blending partner for softfeel coatings (e.g. with AC 2592)
<b>PUR-MATT 910</b>	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
<b>PUR-MATT 310</b>	39.0-42.0	750-2,000	7.0-9.0	10	As blending partner for softfeel coatings (e.g. with AC 2592)
<b>AC 2592</b>	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
<b>AC 2592</b>	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
<b>LUX 220</b>	34.0-36.0	20-200	7.0-9.0	0	Highest Mw PUD, hard before cure, superior chemical resistance
<b>LUX 250</b>	39.0-41.0	10-500	6.5-8.0	0	Universal UV cure PUD, easy to wash before UV, workhorse product
<b>LUX 399</b>	44.0-46.0	10-500	6.5-7.5	0	Very versatile, high film-build, reemulsifiable
<b>LUX 484</b>	36.0-38.0	20-200	7.0-8.5	0	Very high Mw PUD with superior mechanical resistance, easy matting

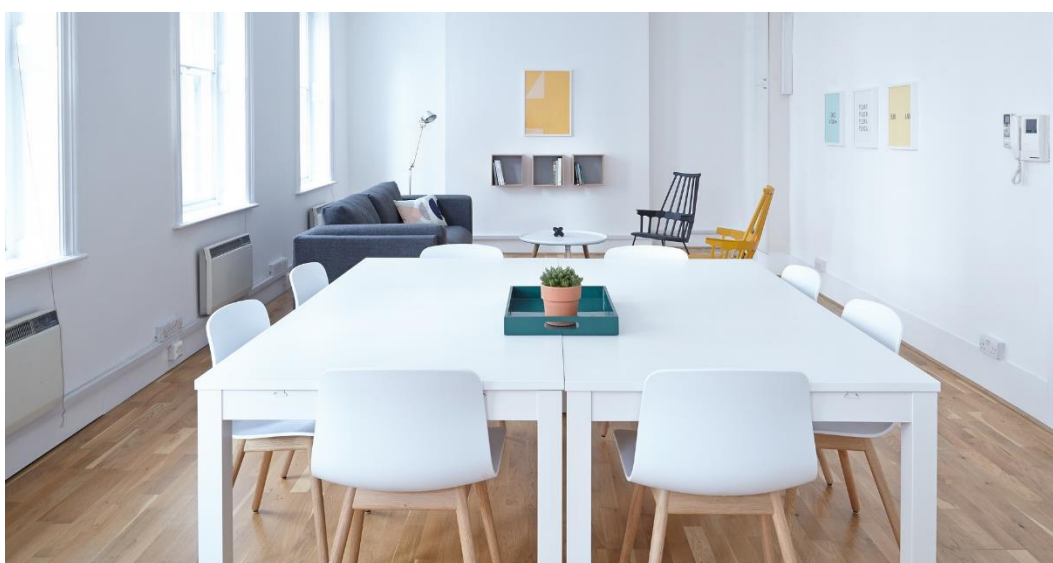


## Pigmented furniture coatings

### 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
<b>AC 5503</b>	49.0-52.0	1,000-5,000	7.0-9.0	0	Very low fibre rising on MDF
<b>AC 2403</b>	46.0-48.0	200-2,000	8.0-9.0	16	Water barrier, prevents swelling of MDF when overcoated
<b>Ren AC 8403</b>	46.0-48.0	200-2,000	8.0-9.0	20	Biobased acrylic with highest corrosion resistance & universal adhesion
<b>AC 2742</b>	47.0-49.0	2,000-4,000	7.5-8.5	45	For high resistant topcoats
<b>Ren AC 8742</b>	47.0-49.0	500-4,000	7.5-8.5	44	Biobased acrylic with outstanding stain-, chemical- and hand lotion resistance



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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
<b>AC 2403</b>	46.0-48.0	200-2,000	8.0-9.0	16	Water barrier, prevents fibre rising on e.g. MDF
<b>Ren AC 8403</b>	46.0-48.0	200-2,000	8.0-9.0	20	Biobased acrylic as water barrier, prevents fibre rising on e.g. MDF
<b>AC 2420</b>	46.0-48.0	200-3,000	8.0-9.0	20	Harder version of AC 2403, optimized for galvanized surfaces
<b>AC 5401</b>	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.





## 1-pack

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 2714</b>	43.0-45.0	30-300	8.0-9.0	50	Good stain resistance, high hand fat resistance
<b>AC 2742</b>	47.0-49.0	2,000-4,000	7.5-8.5	45	Excellent stain & coffee resistance, hard and blocking resistant
<b>Ren AC 8742</b>	47.0-49.0	500-4,000	7.5-8.5	44	Biobased acrylic with outstanding stain-, chemical- and hand lotion resistance
<b>AC 2765</b>	44.0-46.0	10-300	8.0-9.0	65	Highest stain resistance level, economic, for IKEA R0 and R2 systems
<b>AC 3660</b>	39.0-41.0	20-200	8.0-9.0	55	Best compromise of stain resistance & blocking resistance
<b>UC 8400</b>	39.0-41.0	20-200	7.0-8.5	50	Good stain and mechanical resistance, high hand fat resistance
<b>UC 8600</b>	39.0-41.0	20-200	7.0-8.5	48	Very good stain & coffee resistance, very hard, scratch and blocking resistant



## 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
<b>AC 2765</b>	44.0-46.0	10-300	8.0-9.0	65	Highest stain resistance level, economic, for IKEA R0 and R2 systems
<b>UC 8600</b>	39.0-41.0	20-200	7.0-8.5	48	Very good stain & coffee resistance, very hard, scratch and blocking resistant

## 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
<b>AC 31</b>	49.0-51.0	300-2,000	7.0-8.0	40	Fast drying, excellent chemical resistances, weathering resistant
<b>AC 3770</b>	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding resistances and adhesion to multiple substrates
<b>AC 3797</b>	34.0-36.0	20-500	7.5-8.5	17	High chemical resistances
<b>UC 8600</b>	39.0-41.0	20-200	7.0-8.5	48	Very good stain & coffee resistance, very hard, scratch and blocking resistant



## UV-curable

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

**ALBERDINGK® LUX 220** and **ALBERDINGK® LUX 265** are particularly recommended for very high resistance.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>LUX 220</b>	34.0-36.0	20-200	7.0-9.0	0	Highest chemical resistance, excellent depth-cure
<b>LUX 250</b>	39.0-41.0	10-500	6.5-8.0	0	Workhorse UV PUD for general pigmented coatings
<b>LUX 481</b>	39.0-41.0	10-500	7.0-8.0	0	Excellent stain resistance in pigmented coatings
<b>LUX 482</b>	43.0-45.0	10-500	6.5-8.0	0	Economic resin for coloured topcoats, high chemical resistance

## Isocyanate-free x-linker

**ALBERDINGK® ALBOLink CD 20** can replace polyisocyanates in PUDs and copolymers where customers are used to use 9:1 or 10:1 crosslinking ratios.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	Features
<b>ALBOLink CD 20</b>	19.0-21.0	20-200	6.5-9.0	Crosslinker for PUDs and copolymers, replaces isocyanates in 9:1 or 10:1 systems













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