









Binders for floor 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>&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><b>Dispersions:</b> Acrylic, Vinyl acetate, Polyurethane and hybrid dispersions</p> <p><b>Oils:</b> Linseed oil, Castor oil, Derivatives</p>	 <p><b>Locations:</b></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).

## Product overview wood floor coatings

	Primer for wood	Stain for wood	Oil/ Wood care	Varnish 1-pack economic	Varnish 1-pack allround	Varnish 1-pack high performance	Varnish 2-pack	PUDs for crosslinking with Carbodiimide	Low emission coatings (AgBB etc.)	Ultra matt coatings	UV cure on-site
AC 2570		x									
AC 2700	x			x							
AC 2714											
AC 3635	x			x							
AC 3650	x										
AC 5503	x										
Ren AC 8700	x			x					x		
AFU 850					x			x	x	x	
CUR 920						x					
LUR 3		x									
LUX 220											x
LUX 250											x
OP 100			x								
OP 105			x								
PUR-MATT 910									x	x	
PUR-MATT 940									x	x	
U 7500					x	x	x	x	x		
U 7800									x		
U 8500					x	x	x	x	x		
U 9154					x		x		x		
U 9800						x					
U 9804						x	x				
UC 84					x			x	x		

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## Product overview general floor coatings

	Concrete 1-pack allround	Concrete 1-pack for garage floors (HTR)	Concrete 2-pack for industrial floors	Multicolor Paint	Coating for plastic floors Vinyl	Primer for concrete	Polyols for MDI-crosslinked floor coatings	Polyols for HDI-crosslinked floor coatings	Stone carpets	Topcoat for Albodur floors
AC 25381	<b>x</b>									
AC 2714		<b>x</b>		<b>x</b>						
AC 3660	<b>x</b>	<b>x</b>								
AC 3687	<b>x</b>									
AC 3699			<b>x</b>							<b>x</b>
AC 3770			<b>x</b>		<b>x</b>					<b>x</b>
AC 27401			<b>x</b>		<b>x</b>					<b>x</b>
LUX 220					<b>x</b>					
LUX 250										
AFU 850										<b>x</b>
PUR-MATT 910					<b>x</b>					
U 9000					<b>x</b>					
U 9380					<b>x</b>					
UC 90					<b>x</b>					
Albodur 145							<b>x</b>			
Albodur 901							<b>x</b>			
Albodur 903							<b>x</b>			
Albodur 912						<b>x</b>	<b>x</b>			
Albodur 917							<b>x</b>		<b>x</b>	
Albodur 921							<b>x</b>			
Albodur 942							<b>x</b>			
Albodur 957							<b>x</b>	<b>x</b>	<b>x</b>	
Albodur 965							<b>x</b>	<b>x</b>		
Albodur 1054							<b>x</b>	<b>x</b>	<b>x</b>	

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## Introduction

There are different types of coatings depending on the type of floor covering

## Wood floor coatings

Coatings for wooden floors are used to protect and enhance the beauty of the wood. In today's world they need to be compliant with emission regulations and HSE requirements.

ALBERDINGK BOLEY has a long tradition in serving this market and a strong competence in reacting to customers' needs.

## Primer

Acrylic dispersions for primers on wood are used to adjust colour ("Anfeuerung"), reduce cost and also reduce emissions of the whole system. ALBERDINGK offers a vast variety of polymers with different effects to match most required properties.

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
<b>Ren AC 8700</b>	42.0-44.0	50-4,000	7.0-8.0	4	Biobased version of AC 2700, ultra-low VOC-demand
<b>AC 3635</b>	40.0-42.0	50-500	7.4-7.7	30	Neutral color, clear in the can
<b>AC 3650</b>	40.0-42.0	50-500	7.0-8.0	38	Excellent „Anfeuerung“, NC-like
<b>AC 5503</b>	49.0-52.0	1000-5,000	7.0-9.0	0	Lowest fibre rising polymer

## Stains

For a more colourful life, consumers like to use stains even on floors. 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 2570</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)

## Oil / Wood care

Natural oils are more demanded by consumers due to their renewable content and non film forming properties. ALBERDINGK has developed a urethane oil based on linseed oil which is solvent free and can be used with driers and isocyanate.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>OP 100</b>	100	500-1,500	-	-	PU-modified linseed oil with > 80% RR-content
<b>OP 105</b>	100	ca. 100			PU-modified linseed oil with > 99% RR-content

## Varnishes

Varnishes for floors are categorized by 1 component vs. 2 component systems, with and without crosslinker and their quality level. Furthermore, special products for low emission systems are highlighted to comply with latest environmental regulations.

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## 1-pack economic

Economic systems have gained market share over the years as consumers are very cost sensitive. ALBERDINGK offers pure acrylics, blend options where cost & quality can be adjusted as well as copolymers to satisfy market needs.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 3635</b>	40.0-42.0	50-500	7.4-7.7	30	Clear in the can, low foaming tendency, economic
<b>AC 2700</b>	42.0-44.0	50-500	7.0-8.0	0	Excellent application properties, low emission
<b>Ren AC 8700</b>	42.0-44.0	50-4,000	7.0-8.0	4	Biobased version of AC 2700, ultra-low VOC-demand

## 1-pack allround

1-pack allround systems in our mind have a higher PUD content and represent the „medium to high“ quality level in floor finishes.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>U 7500</b>	33.0-35.0	20-200	7.0-9.0	13	Combines low emission with excellent application properties. Workhorse PUD
<b>U 8500</b>	34.0-36.0	20-200	7.5-8.5	0	Biobased PUD with best application properties at low VOC, Workhorse PUD
<b>UC 84</b>	34.0-36.0	20-200	7.5-8.5	42	Very hard copolymer, neutral „Anfeuerung“
<b>AFU 850</b>	39.0-41.0	20-200	7.0-8.5	25	Amine free PUD, neutral „Anfeuerung“, hard, good adhesion

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## 1-pack high performance

The 1-pack high performance polymers are superior in chemical resistance and offer 2-pack performance with a 1-pack system. **ALBERDINGK® U 9000** is the reference in chemical resistance today and performs almost as good as highly crosslinked 2-pack or UV cure systems.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>CUR 920</b>	29.0-31.0	20-200	7.0-8.5	0	Approx. 43% renewable resources outstanding wood warming, high gloss, fast hardness development
<b>U 9000</b>	28.0-30.0	50-1,000	7.0-8.5	0	Highest hardness and chemical resistance
<b>U 9800</b>	34.0-36.0	20-300	7.5-9.0	40	DMEA neutralized PUD, high hardness and high chemical resistance
<b>U 9804</b>	34.0-36.0	20-300	7.5-9.0	40	Economic, DMEA neutralized PUD, high hardness and high chemical resistance
<b>U 7500</b>	33.0-35.0	20-200	7.0-9.0	13	Very good application properties at low VOC, Workhorse PUD
<b>U 8500</b>	34.0-36.0	20-200	7.5-8.5	0	Biobased PUD with best application properties at low VOC, Workhorse PUD



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## 2-pack

2-pack polyisocyanate crosslinked varnishes (9:1 or 10:1) are a market standard for high traffic areas. **ALBERDINGK® U 8500** offers best application properties at very low VOC levels.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	features
<b>U 7500</b>	33.0-35.0	20-200	7-9	13	Very good application properties at low VOC, Workhorse PUD
<b>U 8500</b>	34.0-36.0	20-200	7.5-8.5	0	Biobased PUD with best application properties at low VOC, Workhorse PUD
<b>U 9154</b>	34.0-36.0	20-300	7.5-8.5	0	For economic high quality 2-pack NCO x-linked floor varnishes
<b>U 9804</b>	34.0-36.0	20-300	7.5-9.0	40	Economic, DMEA neutralized PUD, high hardness and high chemical resistance
<b>U 9900</b>	39.0-41.0	20-200	7.5-9.0	50	Very hard, self-x-linking, high chemical resistance

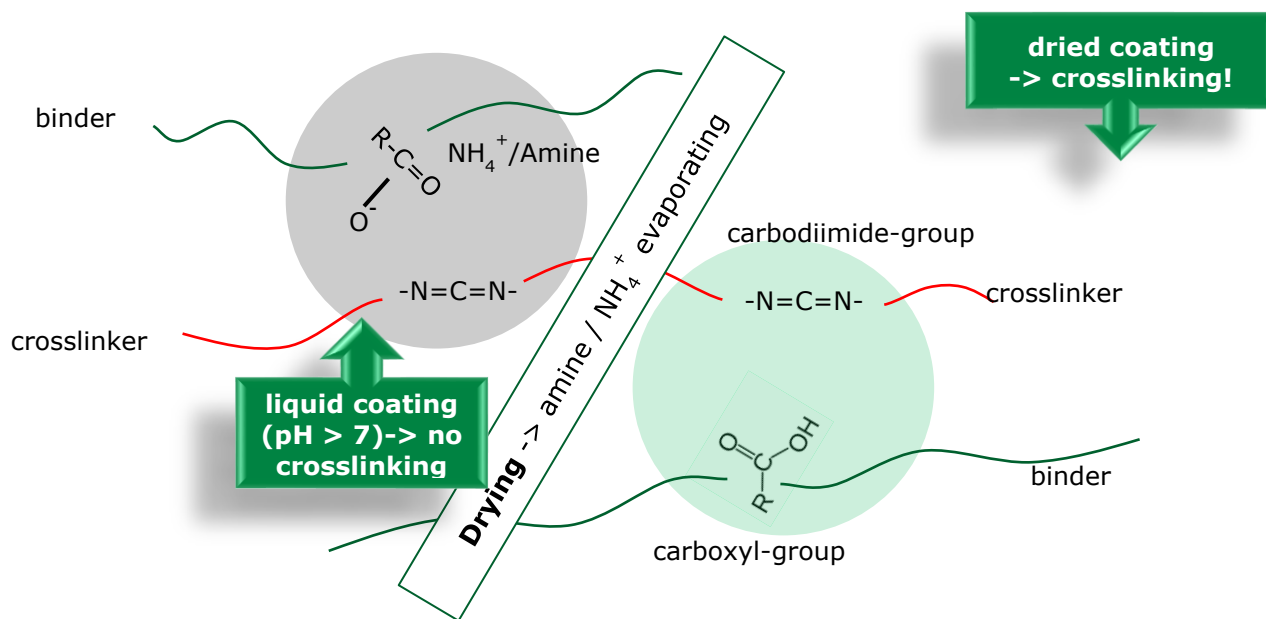
## 2-pack non-isocyanate crosslinking

Due to increasing concerns in HSE, polyisocyanates are under higher pressure. ALBERDINGK recommends chemistry of carbodiimide crosslinker and PUDs which can directly replace a 9:1 or 10:1 isocyanate system without change for the applicator (in can clarity).

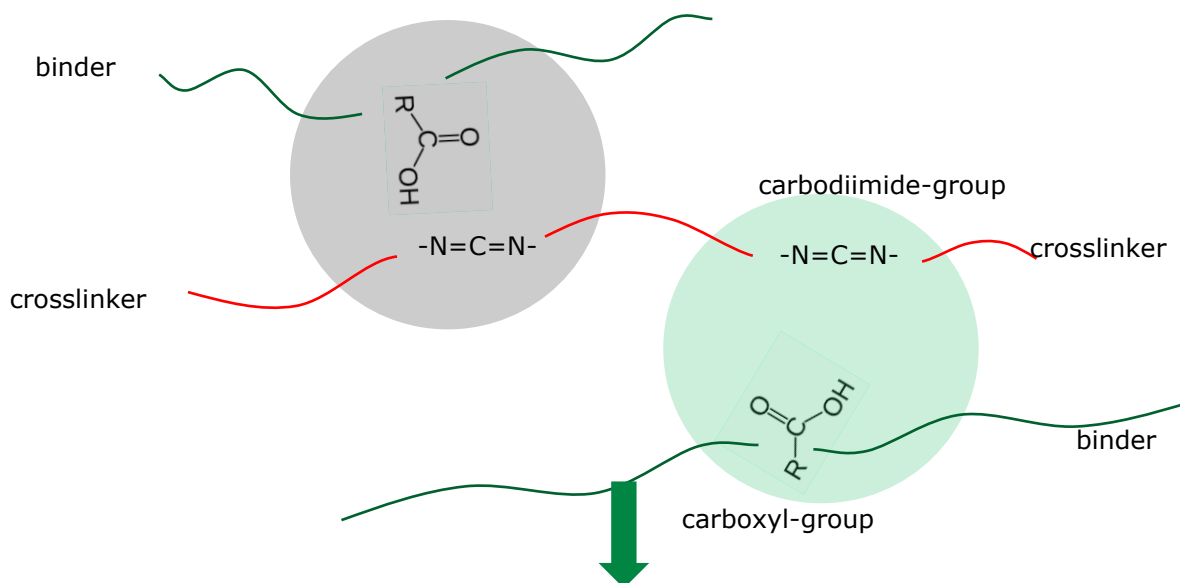
## Non-isocyanate x-linker (recommended for PUDs & UCs)

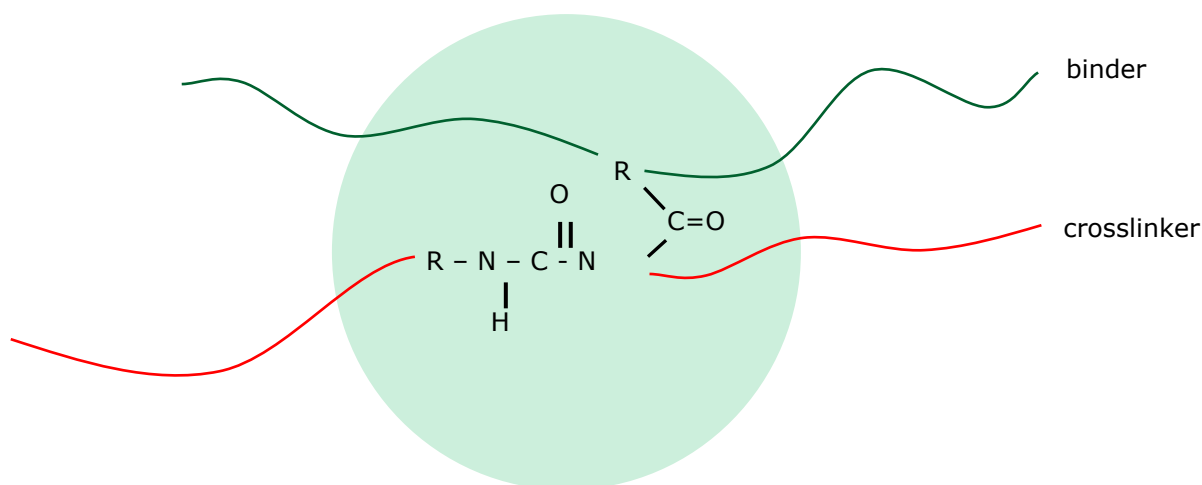
### Crosslinking-mechanism of Carbodiimide x-linker

Neutralized carboxyl-groups avoid the crosslinking



During drying, the amine/ $\text{NH}_4^+$  evaporates and carboxyl-groups are forming -> Now the crosslinking is possible





→ No CO<sub>2</sub> release → no gas-bubbles in the film !

### Recommended ALBERDINGK PUDs for crosslinking with Carbodiimide

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>U 7500</b>	33.0-35.0	20-200	7.0-9.0	13	Very good application properties at low VOC, Workhorse PUD
<b>U 8500</b>	34.0-36.0	20-200	7.5-8.5	0	Best application properties at low VOC, Workhorse PUD
<b>AFU 850</b>	39.0-41.0	20-200	7.0-8.5	25	Best reactivity with Carbodiimide-crosslinkers, amine free
<b>UC 84</b>	34.0-36.0	20-200	7.5-8.5	42	Hard copolymer with very good reactivity to Carbodiimide

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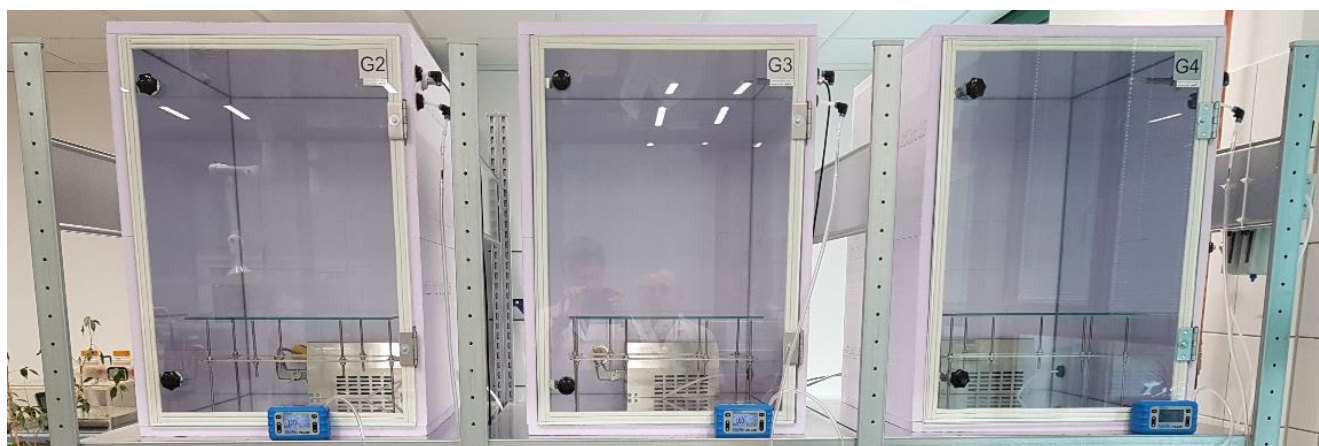
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## Low emission coatings (AgBB, etc.)

ALBERDINGK offers a broad selection of PUDs and acrylics which have a low co-solvent demand and low or no volatile amine content.

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
<b>AFU 850</b>	39.0-41.0	20-200	7.0-8.5	25	Amine free PUD, neutral "Anfeuerung", hard, good adhesion
<b>PUR-MATT 910</b>	34.0-36.0	20-2,000	7.0-9.0	15	Low amine content, best burnishing resistance in matt systems
<b>PUR-MATT 940</b>	35.0-37.0	100-500	8.0-9.0	15	Ultra-matt version of PM 910, no external matting necessary, excellent storage stability
<b>Ren AC 8700</b>	42.0-44.0	50-4,000	7.0-8.0	4	Biobased version of AC 2700, ultra-low VOC-demand
<b>U 7500</b>	33.0-35.0	20-200	7.0-9.0	13	Very good application properties at low VOC, Workhorse PUD
<b>U 7800</b>	39.0-41.0	20-300	7.5-8.5	0	MFFT 0°C, low amine content, self-crosslinking
<b>U 8500</b>	34.0-36.0	20-200	7.5-8.5	0	Best application properties at low VOC, Workhorse PUD
<b>U 9154</b>	34.0-36.0	20-300	7.5-8.5	0	For economic high quality 2-pack NCO x-linked floor varnishes



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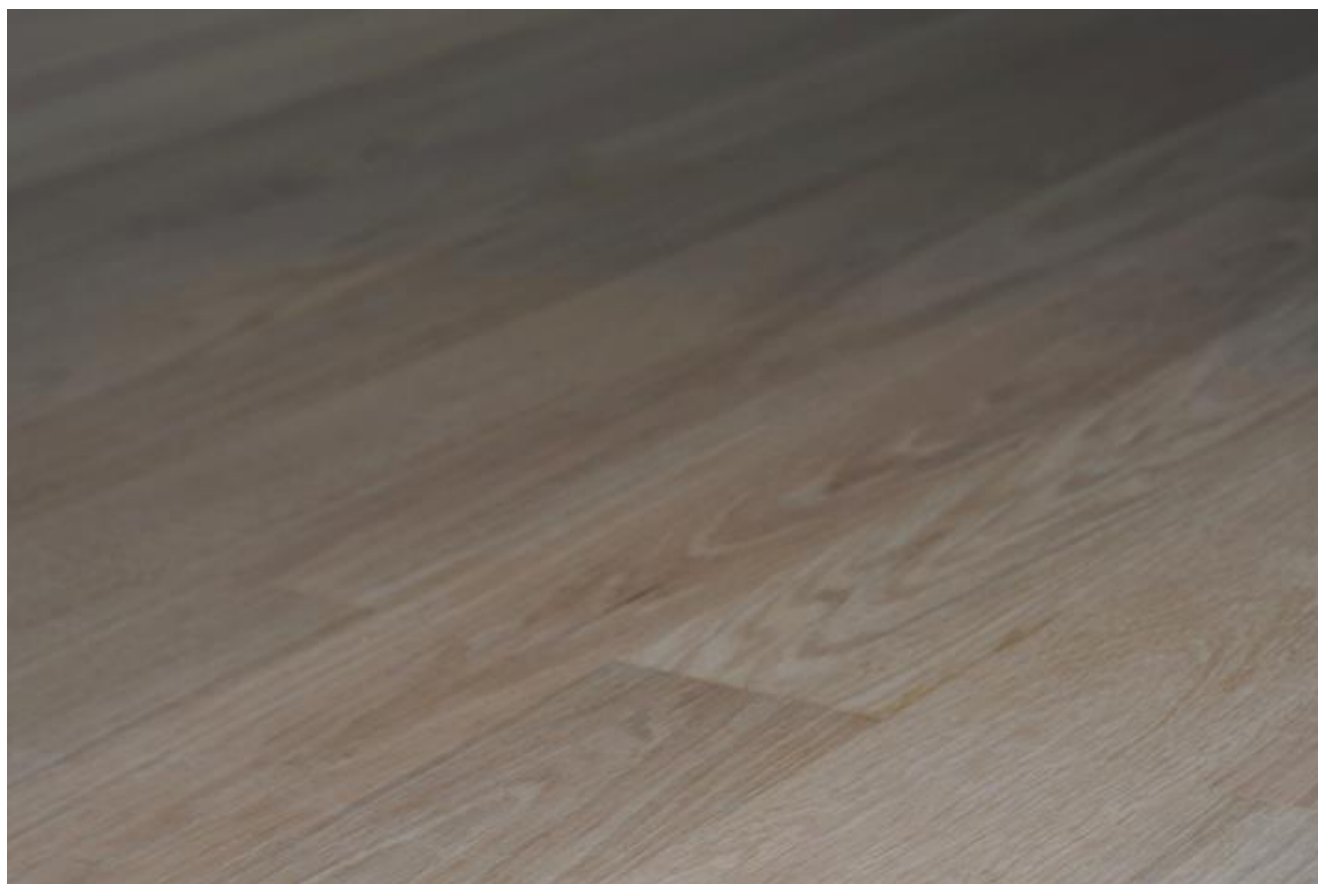
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## Ultra matt coatings

**ALBERDINGK® PUR MATT 910** is a hard, inherent matt PUD which can be used as matting agent and as main binder to formulate ultra matt finishes with superior burnishing resistance.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>PUR-MATT 910</b>	34.0-36.0	20-2,000	7.0-9.0	15	Best burnishing resistance, very neutral "Anfeuerung", excellent sandability, very high coefficient of friction (antislip)
<b>PUR-MATT 940</b>	35.0-37.0	100-500	8.0-9.0	15	Ultra-matt version of PM 910, no external matting necessary, hard but flexible, excellent storage stability





## UV-cure on-site

ALBERDINGK products for on-site UV cure are designed to offer instant chemical resistance and hard, mechanical resistant films.

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, full physical drying before UV
<b>LUX 250</b>	39.0-41.0	10-500	6.5-8.0	0	Fast flash-off time, high scratch resistance



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## Concrete floor coatings

Coatings for concrete floors offer hot tire resistance and very high chemical resistance.

### 1-pack allround

Products for 1-pack allround are economic polymers which offer good chemical resistance and adhesion.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 25381</b>	47.0-49.0	2,000-8,000	7.5-8.5	9	High water resistance and universal adhesion, workhorse acrylic
<b>AC 3660</b>	39.0-41.0	20-200	8.0-9.0	55	For wet look, epoxy acrylic, high chemical resistance
<b>AC 3687</b>	40.0-42.0	20-200	7.5-8.5	0	High hardness @low MFFT, enhanced open time



## 1-pack for garage floors

Our products for 1-pack garage floors offer hot tire resistance at lowest possible MFFT level.

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	Very hydrophobic, excellent chemical resistance
<b>AC 3660</b>	39.0-41.0	20-200	8.0-9.0	55	For wet look, epoxy acrylic, high chemical resistance

### Hot tire resistance

### ALBERDINGK® AC 3660:

commercial product:



## 2-pack for industrial floors

High OH-containing, primary acrylics for fast drying coatings offer superior chemical resistance.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 27401</b>	37.0-39.0	700-2,000	7.5-8.5	15	Superior chemical & stain resistance, for matt varnishes with easy to clean properties
<b>AC 3770</b>	46.0-48.0	20-2,000	7.5-8.5	80	Outstanding chemical & hot tire resistances
<b>AC 3699</b>	39.0-41.0	50-500	7.0-8.0	40	Long open time, high chemical resistance and very fast drying/curing

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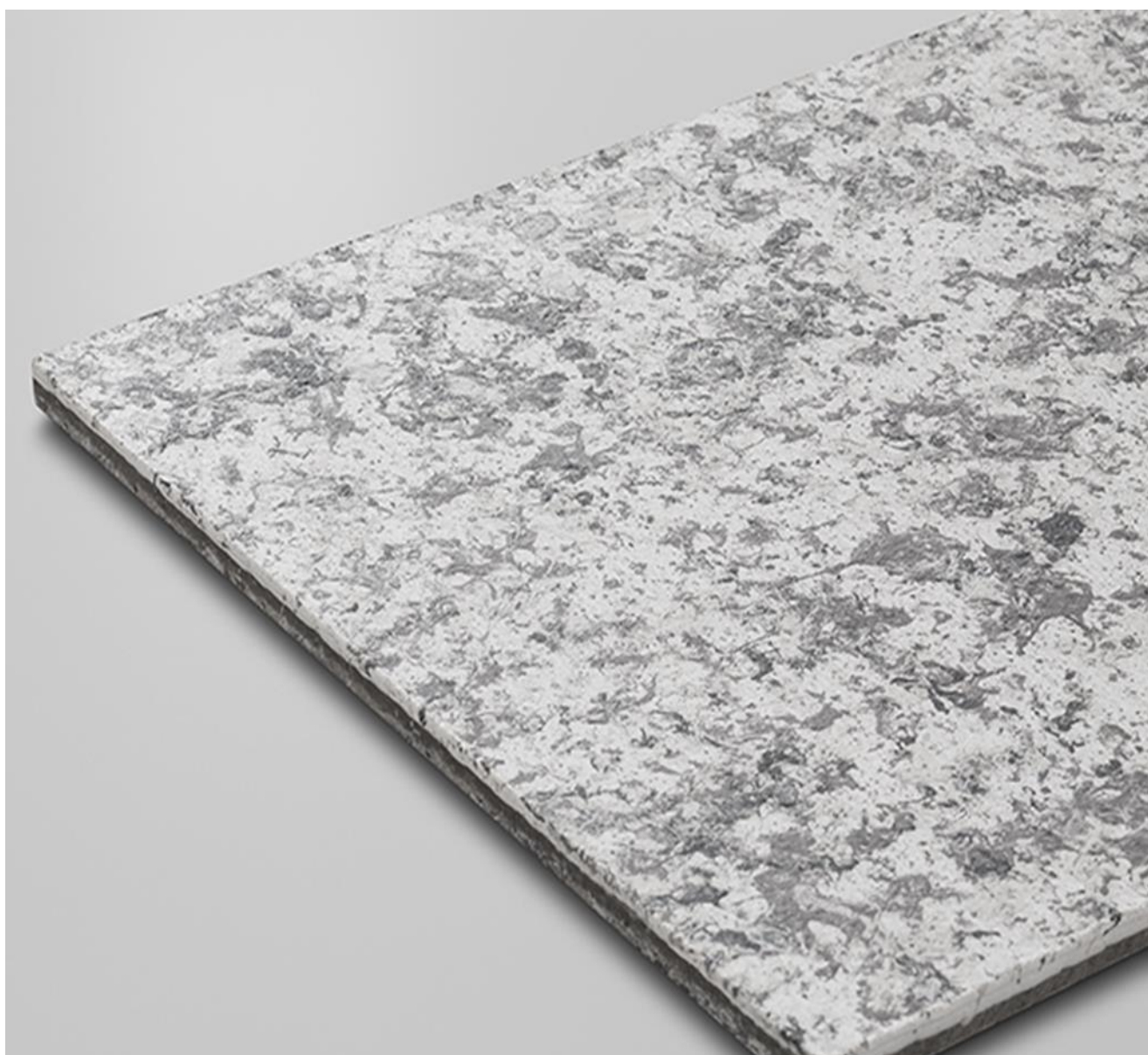
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## Multicolour paint

**ALBERDINGK® AC 2714** is compatible with LAPONITE® thickeners giving the option to formulate hot tire resistant multicolour paints (clear topcoat recommended).

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	Tire resistant polymer which works well with LAPONITE® thickeners



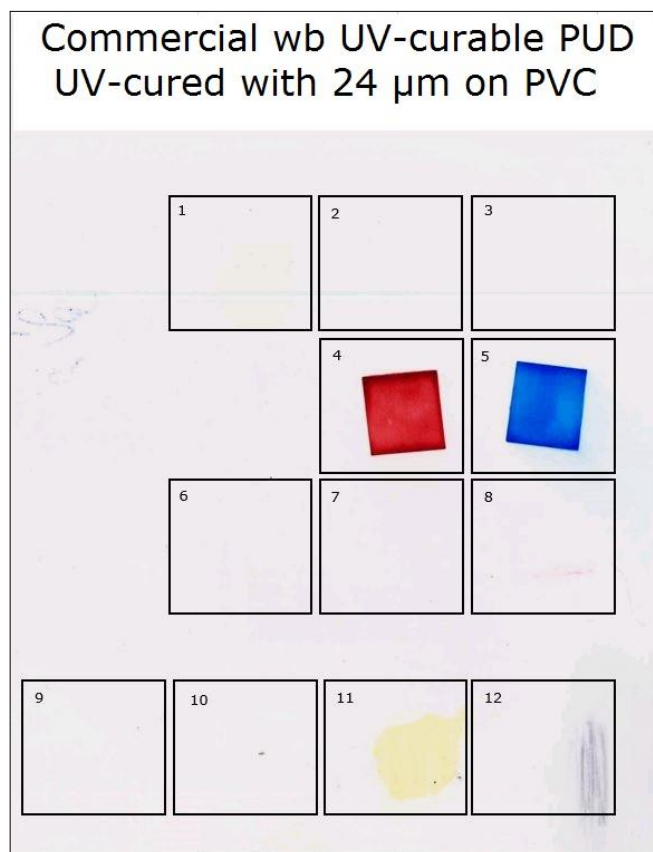
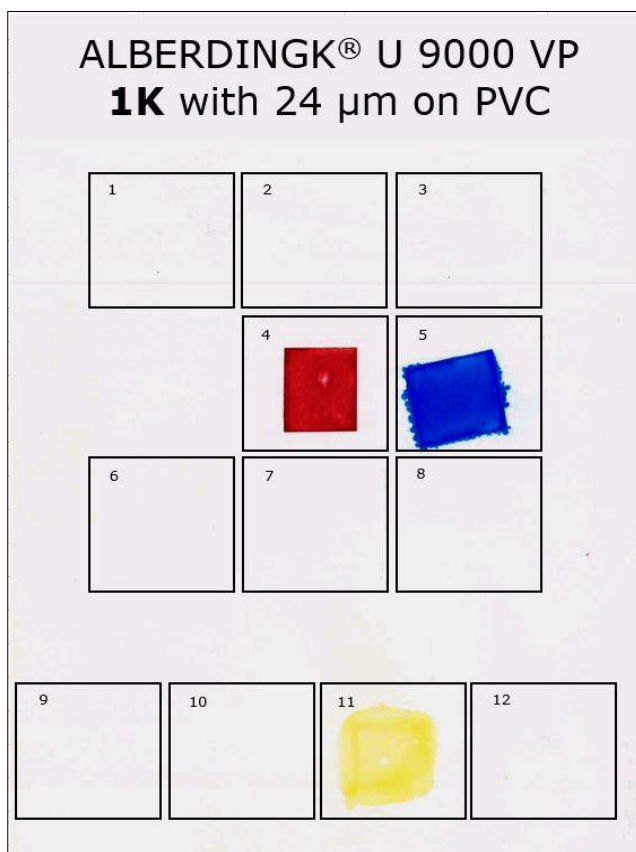
## Coatings for plastic floors / Vinyl

Design flooring based on Vinyl or other plastics are a hygienic alternative for e.g. wood flooring or others as they can be applied seamless. ALBERDINGK offers products for OEM as well as repair/care. **ALBERDINGK® U 9000** offers the highest possible chemical resistance including iodine/betadine resistance.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 27401</b>	37.0-39.0	700-2,000	7.5-8.5	15	2-pack, superior chemical resistance, for matt varnishes with easy to clean properties
<b>AC 3770</b>	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding resistances and adhesion to multiple substrates
<b>LUX 220</b>	34.0-36.0	20-200	7.0-9.0	0	UV-curable, highest chemical resistance, full physical drying before UV
<b>PUR-MATT 910</b>	34.0-36.0	20-2,000	7.0-9.0	15	Best burnishing resistance, very neutral "Anfeuerung"
<b>U 9000</b>	28.0-30.0	50-1,000	7.0-8.5	0	Highest chemical and stain resistance, for 1-pack /2-pack
<b>U 9380</b>	31.0-34.0	10-250	7.5-9.0	25	Very high chemical resistance, outstanding flexibility
<b>UC 90</b>	34.0-36.0	20-200	7.5-8.5	35	Self-crosslinking, good surface hardness, abrasion and blocking resistance

## Comparison of Dye-resistance on PVC

U 9000 VP vs. waterbased UV-curing Polyurethane



1. Sudan yellow 146 (1% in white spirit, 16h)
2. Sudan blue 670 (1% in white spirit, 16h)
3. Sudan red 500 (1% in white spirit, 16h)
4. Neozapon red 335 (1% in ethanol, 16h)
5. Basonyl blue 644 (1% in ethanol, 16h)
6. Basacid yellow 093 fl. (1% in water, 16h)
7. Basacid blue fl. 762 (1% in water, 16h)
8. Basacid red 316 (1% in water, 16h)
9. Coal tar (1h)
10. Shoe polish (Kiwi Red, 2h)
11. Iodine (1% in ethanol, 2min)
12. Edding perm. Marker 3000 red & black (1min)

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## **ALBODUR®-technology: 100% polyols for PU systems**

100% solids 2-pack PU coatings with MDI-crosslinkers are well-established materials. In the past, these coatings were mainly used in industrial areas thanks to their extremely high chemical and mechanical resistance.

With increased legislative pressure on MDI-crosslinkers, more efforts have been made to offer alternative systems based on HDI-crosslinking technology.

The use of aliphatic crosslinkers has opened up new markets in residential and public areas where these coatings are used in decorative floor coatings.

Their extremely high resistance properties against wear and chemicals make them an ideal choice for long lasting coatings in e.g. schools, hospitals and office buildings.



**ALBERDINGK® ALBODUR®**-polyols are based on renewable resource materials (castor oil) which is modified for improved crosslinking with polyisocyanates.

The product range varies from soft to hard polyols which are designed for either aromatic or aliphatic cure.

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**ALBBODUR® 1054** is our latest addition to our product range, offering excellent HDI-crosslinker compatibility combined with superior UV resistance.

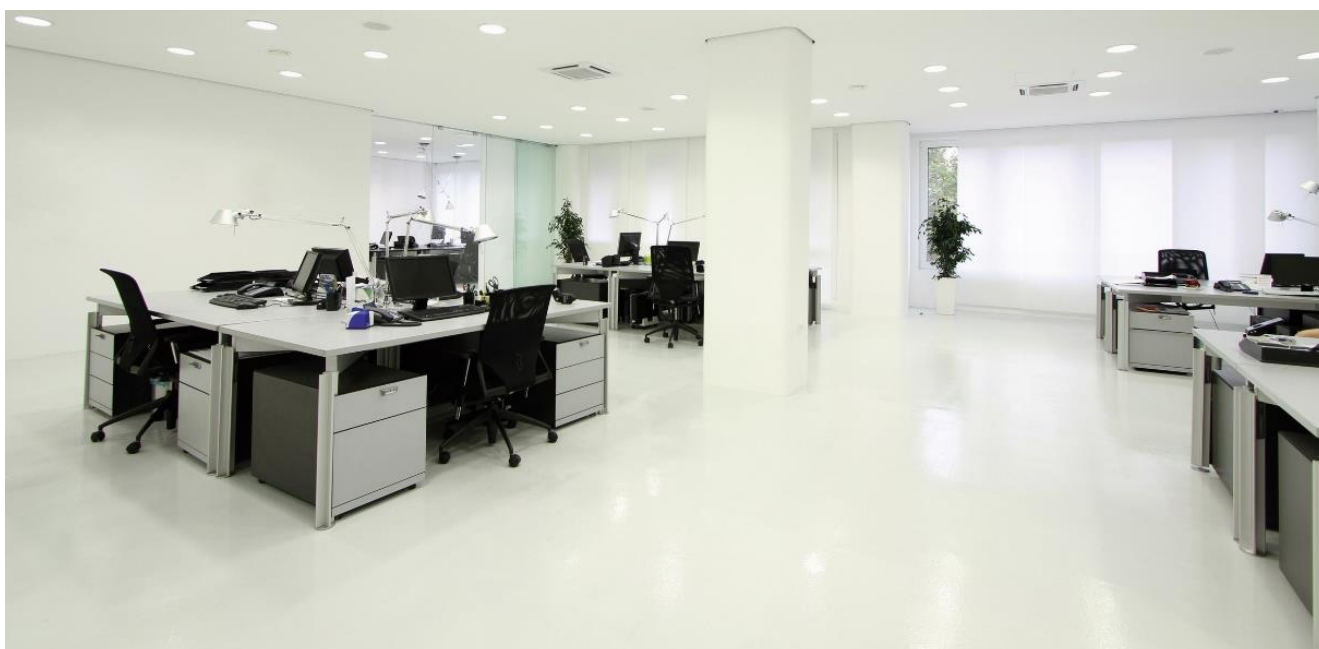
**UV-stability test after 1000h QUV:**



**ALBBODUR® 1054**

Standard 2pack PU resin  
x-linked with aliphatic PIC

UV-stable epoxy



®Vencorex

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## Primer for concrete

ALBODUR®-product	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Features
<b>ALBODUR® 912</b>	600	208	97	Used in combination with SUPRASEC® 9584 for PU/urea primers

## Polyols for MDI-crosslinked floor coatings

ALBODUR®-product	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Features
<b>ALBODUR® 901</b>	600	185	89	Soft coatings for sports flooring and comfort coatings
<b>ALBODUR® 903</b>	700	160	65	Very flexible coatings for sports flooring and comfort coatings
<b>ALBODUR® 912</b>	600	208	97	Workhorse polyol, excellent balance of hardness and elasticity, Shore D 44
<b>ALBODUR® 921</b>	600	218	98	Harder version of <b>ALBODUR® 912</b> with improved chemical resistance, Shore D 58,
<b>ALBODUR® 145</b>	3,000	240	100	High hardness and high chemical resistance, Shore D 80
<b>ALBODUR® 942</b>	500	318	98	Longer Pot life version of <b>ALBODUR® 941</b> , highest hardness, similar to epoxy systems but flexible, Shore D 80

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## Polyols for HDI-crosslinked floor coatings

ALBODUR®-product	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Features
<b>ALBODUR® 1054</b>	3,000	210	80	Workhorse, excellent UV, chemical and mechanical resistance, excellent HDI compatibility, Shore D 40
<b>ALBODUR® 957</b>	2,600	260	95	For harder HDI coatings, Shore D 55
<b>ALBODUR® 965</b>	1,100	291	90	For flexible coatings on e.g. balconies, Shore D 40

## Stone carpets

ALBODUR®-product	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Features
<b>ALBODUR® 1054</b>	3,000	210	80	Excellent UV resistance, better crosslinking under marginal conditions



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## Topcoats for ALBODUR® floors

Topcoats for 100% solids PU floors are typically waterbased 2-pack systems with very high chemical and mechanical resistance properties.

**ALBERDINGK** OH-functional acrylic and polyurethane dispersions are an ideal choice for topcoats on high demanding PU floors.

Alberdingk®-product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Features
<b>AC 27401</b>	37.0-39.0	700-2,000	7.5-8.5	15	For low gloss 2-pack with superior chemical resistance and easy to clean surface, best hot tire resistance
<b>AC 3770</b>	46.0-48.0	200-2,000	7.5-8.5	80	Outstanding chemical- and stain resistances, as well as hot tire resistance
<b>AC 3699</b>	39.0-41.0	50-500	7.0-8.0	40	For glossy and low gloss coatings, excellent balance of hardness and resistance
<b>AFU 850</b>	39.0-41.0	20-200	7.0-8.5	25	In combination with Carbodiimide crosslinker for low emission coatings systems

For more information on **ALBODUR®** products and specific applications, please refer to the separate **ALBODUR®**-polyol technology info.



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