

# **Technology Information**



Alberdingk $^{\mbox{\scriptsize $\mathbb{R}$}}$  products for construction applications



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### **ALBERDINGK BOLEY in a nutshell**



Leading global manufacturer of environmentally friendly water-based binders and oils with unique properties to refine, refurbish, bind and protect multiple types of substrates



Medium sized, privately owned company

> a partner to our customers for more than 250 years



> 500 employees



Dynamic, Innovative and flexible

Pioneers in biobased polymer dispersions



### **Dispersions:**

Acrylic, Vinyl acetate, Polyurethane and hybrid dispersions

### Oils:

Linseed oil, Castor oil, Derivatives



#### Locations:

- 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 <a href="https://www.alberdingk-boley.de">www.alberdingk-boley.de</a>.

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### **Overview**

#### **Product selection for Construction**

	Dispersion based tile adhesives	Dispersion based primers for tiles and difficult substrates	PU Dispersion based tile grouts	2K Cementitious waterproofing membranes	2K self-levelling mortars & screeds	Cement modifiers	MicroCement	Curing membranes & concrete sealers	Roofing / waterproofing	Renders	Sealants	ETICS adhesive
AC 2008										x		
AC 2025			x									
AC 2403								x				
AC 75241											x	
AC 75275											X	
AS 2040				X	X	X			X		X	
AS 2065					x	x	x					
AS 2110 VP	x	x				x	x		x			X
AS 2120 VP	X	x							x			X
AS 6900										X	X	
CUR 2021 VP									X			
H 595								X				
H 735								x				
SC 4450		X								x		
SC 48										X	X	
U 228 VP									X			
U 400 N									X			
U 6154 VP									X			
U 7800			X									
U 9900			X									

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### **Product selection for Floor & Roof Coatings**

	Roof tile coatings	1K Floor paint	2K Floor paint / Industrial flooring	2K, 100% solids decorative & comfort flooring (aliphatic isocyanate cure)	2K, 100% solids industrial flooring (aromatic isocyanate cure)	2K, 100% solids industrial flooring (aliphatic isocyanate cure)	2K, 100% solids comfort flooring (aromatic isocyanate cure)	2K, 100% solids sports flooring, membranes and roofing (aromatic isocyanate cure)	3K PU Cement Floor	2K, 100% solids stone carpet (aliphatic cure)
AC 2714		x								
AC 27401			x							
AC 3660		x								
AC 3687 VP		x								
AC 3699			x							
Albodur 1054				x						
Albodur 901								x		
Albodur 903								x		
Albodur 906								x		
Albodur 912							x			
Albodur 917					x					x
Albodur 921					x					
Albodur 923					x					
Albodur 957					x	x				x
Albodur 3003 VP									x	
SC 48	x									

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# Dispersion based tile adhesives

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2110 VP	49-51	1000-2000	6.8-7.2	3	10	Silane modified styrene acrylic dispersion, ammonia-free
AS 2120 VP	49-51	500-2000	7.0-8.0	17	20	Silane modified styrene acrylic dispersion, harder version of AS 2110, ammonia neutralized for superior water resistance

## Dispersion based primers for tiles and difficult substrates

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2110 VP	49-51	1000-2000	6.8-7.2	3	10	Silane modified styrene acrylic dispersion, ammonia-free
AS 2120 VP	49-51	500-2000	7.0-8.0	17	20	Silane modified styrene acrylic dispersion, harder version of AS 2110 VP, ammonia neutralized for superior water resistance
SC 4450	49-51	500-5000	7.5-8.5	18	25	Economic, ammonia-containing styrene acrylic

# PU Dispersion based tile grouts

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
<u>U 9900</u>	39-41	20-200	7.5-9.0	50	n/a	Very hard urethane dispersion for high chemical resistance
<u>U 7800</u>	39-41	20-300	7.5-8.5	0	n/a	Medium hard, self-crosslinking urethane dispersion for high chemical resistance
AC 2025	48-50	500-4000	8.0-9.0	0	n/a	Multiphase, self-crosslinking blending acrylic with excellent balance of MFFT and hardness

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# **2K Cementitious waterproofing membranes**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]		Features
AS 2040	56-58	1500-4500	7.0-9.0	0	-8	Ammonia-free styrene acrylic with high flexibility and very good water resistance

### 2K self-levelling mortars & screeds

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2065	46-48	20-200	7.0-9.0	27	33	Highly stabilized, hard styrene acrylic with excellent workability and chemical resistance
AS 2040	56-58	1500-4500	7.0-9.0	0	-8	Ammonia-free styrene acrylic with high flexibility and very good water resistance

### **Cement modifiers**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2110 VP	49-51	1000-2000	6.8-7.2	3	10	Silane modified styrene acrylic dispersion, ammonia-free
AS 2040	56-58	1500-4500	7.0-9.0	0	-8	Ammonia-free styrene acrylic with high flexibility and very good water resistance
AS 2065	46-48	20-200	7.0-9.0	27	33	Highly stabilized, hard styrene acrylic with excellent workability and chemical resistance

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### **MicroCement**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2120 VP	49-51	500-2000	7.0-8.0	17	20	Silane modified styrene acrylic dispersion, harder version of AS 2110, ammonia neutralized for superior water resistance
AS 2065	46-48	20-200	7.0-9.0	27	33	Highly stabilized, hard styrene acrylic with excellent workability and chemical resistance

## **Curing membranes & concrete sealers**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
<u>H 595</u>	29-31	20-35	7.5-9.0	0	6	Fine particle size hydrosol for impregnation
Н 735	34-36	20-200	7.0-9.0	0	1	Silane modified, pure acrylic hydrosol with superior adhesion
AC 2403	46-48	20-2000	8.0-9.0	16	n/a	Ultra water- and MVTR resistant curing membranes

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# Roofing / waterproofing

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2040	56-58	1500-4500	7.0-9.0	0	-8	Ammonia-free styrene acrylic with high flexibility and very good water resistance
AS 2110 VP	49-51	1000-2000	6.8-7.2	3	10	Silane modified styrene acrylic dispersion, ammonia-free
AS 2120 VP	49-51	500-2000	7.0-8.0	17	20	Silane modified styrene acrylic dispersion, harder version of AS 2110, ammonia neutralized for superior water resistance
CUR 2021 VP	59-61	100-2000	7.5-8.5	0	n/a	Castor oil/polyether PUD with ca. 40% bio- content
<u>U 400 N</u>	39-41	20-200	7.0-8.0	0	n/a	Polyether-PUD with superior water- and saponification resistance
<u>U 228 VP</u>	56-58	200-1000	7.5-9.5	0	n/a	High solids polyether-PUD with very good water- and saponification resistance
<u>U 6154 VP</u>	37-39	20-200	7.5-9.0	13	n/a	Medium hard polycarbonate PUD with superior weathering resistance

### Renders

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH-value	MFFT [°C]	Tg [°C]	Features
SC 4450	49-51	500-5000	7.5-8.5	18	25	Economic, ammonia-containing styrene acrylic
AC 2008	58-60	200-2000	8.0-9.0	0	8	High solids, pure acrylic with excellent weathering resistance

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### **Sealants**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2040	56-58	1500-4500	7.0-9.0	0	-8	Ammonia-free styrene acrylic with high flexibility and very good water resistance
AS 6900	48-50	20-2000	7.0-8.0	0	7	Ammonia free styrene acrylic with low MFFT
SC 48	49-51	3000-5000	7.0-7.5	14	14	Ammonia-free styrene acrylic with superior water resistance

### **ETICS** adhesive

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AS 2110 VP	49-51	1000-2000	6.8-7.2	3	10	Silane modified styrene acrylic dispersion, ammonia-free
AS 2120 VP	49-51	500-2000	7.0-8.0	17	20	Silane modified styrene acrylic dispersion, harder version of AS 2110 VP, ammonia neutralized for superior water resistance

# **Roof tile coatings**

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]		Features
SC 48	49-51	3000-5000	7.0-7.5	14	14	Ammonia-free styrene acrylic with superior water resistance

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## 1K Floor paint

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AC 2714	43-45	30-300	8.0-9.0	50	45	Self-crosslinking acrylic with superior hot tire resistance
AC 3660	39-41	20-200	8.0-9.0	55	n/a	Epoxy modified pure acrylic with superior hot tire resistance and wet look
AC 3687 VP	40-42	20-200	7.5-8.5	0	n/a	Silane modified pure acrylic with good hot tire resistance at low VOC

# 2K Floor paint / Industrial flooring

Alberdingk®- product	Solids [%]	Viscosity [mPas]	pH- value	MFFT [°C]	Tg [°C]	Features
AC 27401	37-39	100-1500	7.5-8.5	15	n/a	High OH-functional (4.7% on solids) acrylic with ultra-high chemical resistance and fast drying, for VOC-free use
AC 3699	39-41	50-500	7.0-8.0	40	n/a	High OH-functional (4.4% on solids) acrylic with very high chemical resistance and higher gloss

### 2K, 100% solids decorative & comfort flooring (aliphatic isocyanate cure)

Alberdingk®-	Solids	Viscosity	OH-value	Shore	Shore	Features
product	[%]	[mPas]	[mg KOH/g]	A	D	
Albodur 1054	100	2300-3200	210	80	30	Especially suitable for transparent coatings and UV-light resistant decorative floorings with good chemical resistance

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# 2K, 100% solids industrial flooring (aromatic isocyanate cure)

Alberdingk®- product	Solids [%]	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Shore D	Features
Albodur 917	100	2900-3500	170	100	65	Universal, medium hardness req. polyol
Albodur 921	100	500-800	220	95	60	Hard polyol, good chemical resistances
Albodur 923	100	2300-2900	240	100	80	Hard polyol, less moisture sensitive
Albodur 957	100	2300-3300	275	94	74	Hard polyol, also suitable for aliphatic cure

## 2K, 100% solids industrial flooring (aliphatic isocyanate cure)

Alberdingk®-	Solids	Viscosity	OH-value	Shore	Shore	Features
product	[%]	[mPas]	[mg KOH/g]	A	D	
Albodur 957	100	2300-3300	275	95	55	Hard polyol, also suitable for aliphatic cure

### 2K, 100% solids comfort flooring (aromatic isocyanate cure)

Alberdingk®- product	Solids [%]		OH-value [mg KOH/g]	Shore A	Shore D	Features
Albodur 912	100	500-800	230	95	45	For applications with medium hardness and flexibility req., very low viscosity

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# 2K, 100% solids sports flooring, membranes and roofing (aromatic isocyanate cure)

Alberdingk®- product	Solids [%]	Viscosity [mPas]	OH-value [mg KOH/g]	Shore A	Shore D	Features
Albodur 901	100	600-800	200	75	15	For applications with high flexibility req.
Albodur 903	100	500-800	160	65	15	For applications with medium flexible req.
Albodur 906	100	400-600	180	70	20	Elastic surface coatings with good chemical resistance

### **3K PU Cement Floor**

Alberdingk®-	Solids	Viscosity	OH-value	Shore	Shore	Features
product	[%]	[mPas]	[mg KOH/g]	A	D	
Albodur 3003 VP	100	250-450	165-185	85	70	Self-emulsifying in water, ideal for use in 3-component systems with maximum impact- and chemical resistance.

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