



Industrial coating

**Clear coat (multilayer), water-based, matte, preferably for wood
 very high transparency, fast drying
 superior resistance to water, alcohol and staining**

Basis Acrylic dispersion, self cross-linkable

L 00006.1		Control		GLOXIL WW SL		
		15 min dissolver, 4.2 m/s		1-2 min simple paddle mixer, 1000 rpm		
		[1]	[2]	[4]	[7]	[10]
Alberdingk AC 2514	(1)	79.5	79.5	79.5	79.5	79.5
Byk-024	(2)	0.8	0.8	0.8	0.8	0.8
Butyl diglycol		6.0	6.0	6.0	6.0	6.0
Butyl glycol		2.0	2.0	2.0	2.0	2.0
Deionized water		7.5	7.5	---	---	---
Fumed silica		2.5	---	---	---	---
Precipitated silica		---	2.5	---	---	---
GLOXIL WW SL	(3)	---	---	7.7	15.4	23.1
Aquamat 272 N	(2)	3.3	3.3	3.3	3.3	3.3
Byk-346	(2)	0.4	0.4	0.4	0.4	0.4
Rheovis PU 1214 NC	(4)	0.5	0.5	0.5	0.5	0.5
Total parts by weight		102.5	102.5	100.2	107.9	115.6

Recommendation

Instead of fumed or precipitated silica in powder form, liquid GLOXIL WW SL offers:

- faster, easier and dust-free incorporation without need for dispersion process
- better deaeration by foam-suppressing effect
- improved early blocking, water and stain resistance
- further matting level adjustment via post-addition

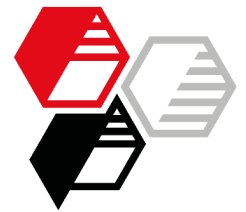
[4] moderate matting, best transparency and wood grain enhancement

[7] good matting with balanced property profile and improved stain resistance to ink

[10] highest matting efficiency combined with best blocking and stain resistance

Mixing

- charge Alberdingk AC 2514 and add Byk-024
- premix and add butyl glycol, butyl diglycol and water
- add matting agent and homogenize by dissolver or just paddle mixer
- complete by remaining additives



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Technical Data

Solids content (w/w)	%	38.7	38.7	39.2	38.4	37.7
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Properties

Determined on films applied with a doctor blade

Drying time, based on ASTM D 5895

Film applicator equipped with wire loop tool (Erichsen)

Dry film thickness (DFT) 35 µm	min	20	22	18	20	22
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Gloss, DFT 3x 35 µm, DIN EN ISO 2813

Gloss 60°	GU	13	9	17	10	6
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Gloss 85°	GU	40	18	28	18	13
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Blocking resistance on Leneta foil, ASTM D 4946

Conditioning 24 h indoor climate, DFT 35 µm

Loading: 100 g/cm ² for 24 h, 23°C		6	6-7	7	7-8	8-9
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Rating: 10 = not sticky, 0 = 75-100 % tear-off

Appearance on wood, DFT 3x 35 µm

Beech

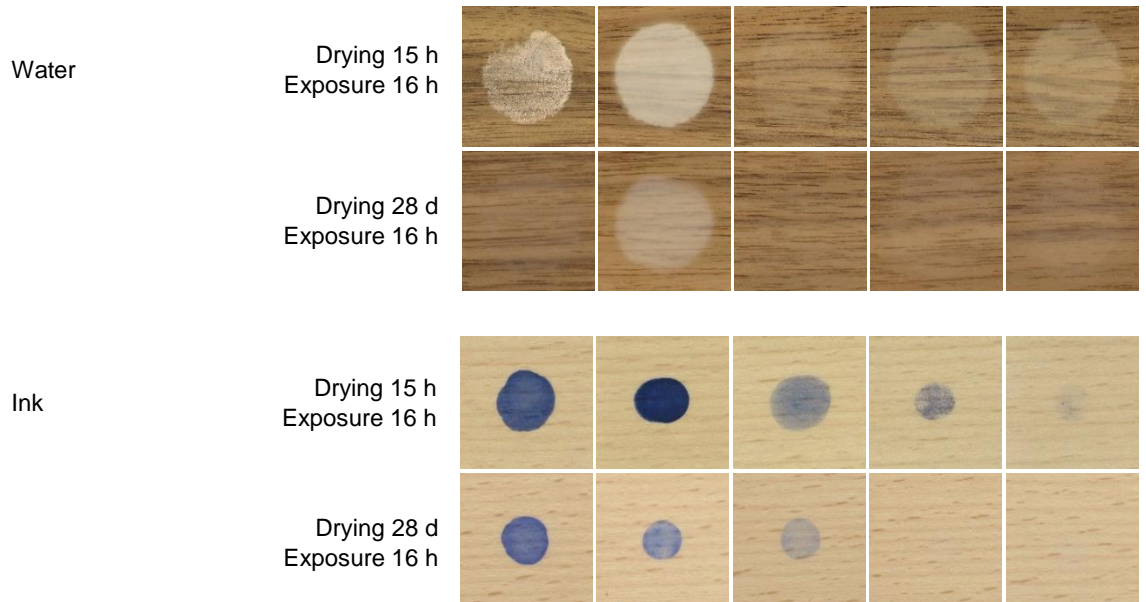
American Walnut





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Stain resistance, DIN EN 12720



- Suppliers**
- (1) Alberdingk Boley
 - (2) Byk Chemie
 - (3) HOFFMANN MINERAL
 - (4) BASF

More information on this topic:

[Gloxil WW SL - Functional Matting Agent for Water-based Clear Coats](#)

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