

**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

		Control		GLOXIL WW SL		
		15 min dissolver, 4.2 m/s		1-2 min simple paddle mixer, 1000 rpm		
L 00006.1		[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	(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

**Preparation**

- 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

*Our applications engineering advice and the information contained in this formulation are based on experience and are made to the best of our knowledge and belief, they must be regarded however as non-binding advice without guarantee. Working and employment conditions over which we have no control exclude any damage claim arising from the use of our data and recommendations. Furthermore we cannot assume any responsibility for patent infringements, which might result from the use of our information.*

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<b>Technical Data</b>	Solids content (w/w) %	38.7	38.7	39.2	38.4	37.7
<b>Properties</b>	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
	Gloss, DFT 3x 35 µm, DIN EN ISO 2813					
	Gloss 60° GU	13	9	17	10	6
	Gloss 85° GU	40	18	28	18	13
	Blocking resistance on Leneta foil, ASTM D 4946					
	Conditioning 24 h indoor climate, DFT 35 µm					
	Loading: 100 g/cm <sup>2</sup> for 24 h, 23°C	6	6-7	7	7-8	8-9
	<i>Rating: 10 = not sticky, 0 = 75-100 % tear-off</i>					

Appearance on wood, DFT 3x 35 µm

Beech

American Walnut

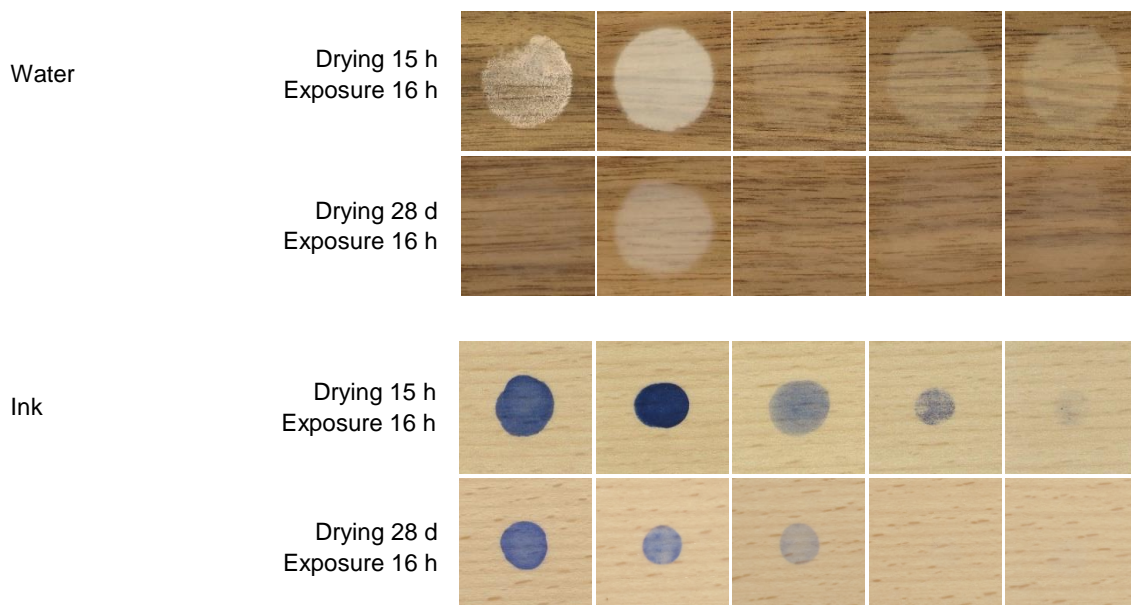


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Stain resistance, DIN EN 12720



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

**More information on this topic is available in this technical report:**

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

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