

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

		Cont 15 min dissolv		GLOXIL matt SL 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 matt 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 matt 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



GUIDE FORMULATION || page 2 of 3



			Control 15 min dissolver, 4.2 m/s		GLOXIL matt SL 1-2 min simple paddle mixer, 1000 rpm				
	L 00006.1		[1]	[2]	[4]	[7]	[10]		
Technical Data	Solids content (w/w)	%	38.7	38.7	39.2	38.4	37.7		
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		
	Gloss, DFT 3x 35 µm, DIN EN IS	O 2813							
	Gloss 60°	GU	13	9	17	10	6		
	Gloss 85°	GU	40	18	28	18	13		
	Blocking resistance on Leneta foi	I, ASTM	D 4946						
	Conditioning 24 h indoor climate,	DFT 35	μm						
	Loading: 100 g/cm² for 24 h, 23°0	2	6	6-7	7	7-8	8-9		
	Rating: 10 = not sticky, 0 = 75-10	00 % teal	r-off						

Appearance on wood, DFT 3x 35 μm





GUIDE FORMULATION || page 3 of 3



		Contr 15 min dissolve		GLO 1-2 min simple		
L 00006.1		[1]	[2]	[4]	[7]	[10]
Stain resistance, DI	N EN 12720					
Water	Drying 15 h Exposure 16 h		0			
	Drying 28 d Exposure 16 h					
Ink	Drying 15 h Exposure 16 h	•	•	•		-
	Drying 28 d Exposure 16 h	•	•	0		

Suppliers

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

More information on this topic:

Gloxil matt SL - Functional matting agent for water-based clear coats

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.

Münchener Straße 75 Phone +49 8431 53-0 DE-86633 Neuburg (Donau)
info@hoffmann-mineral.com

