GLOXIL MATT IN WATER-BASED CLEAR COATS FOR WOOD

OBJECTIVE

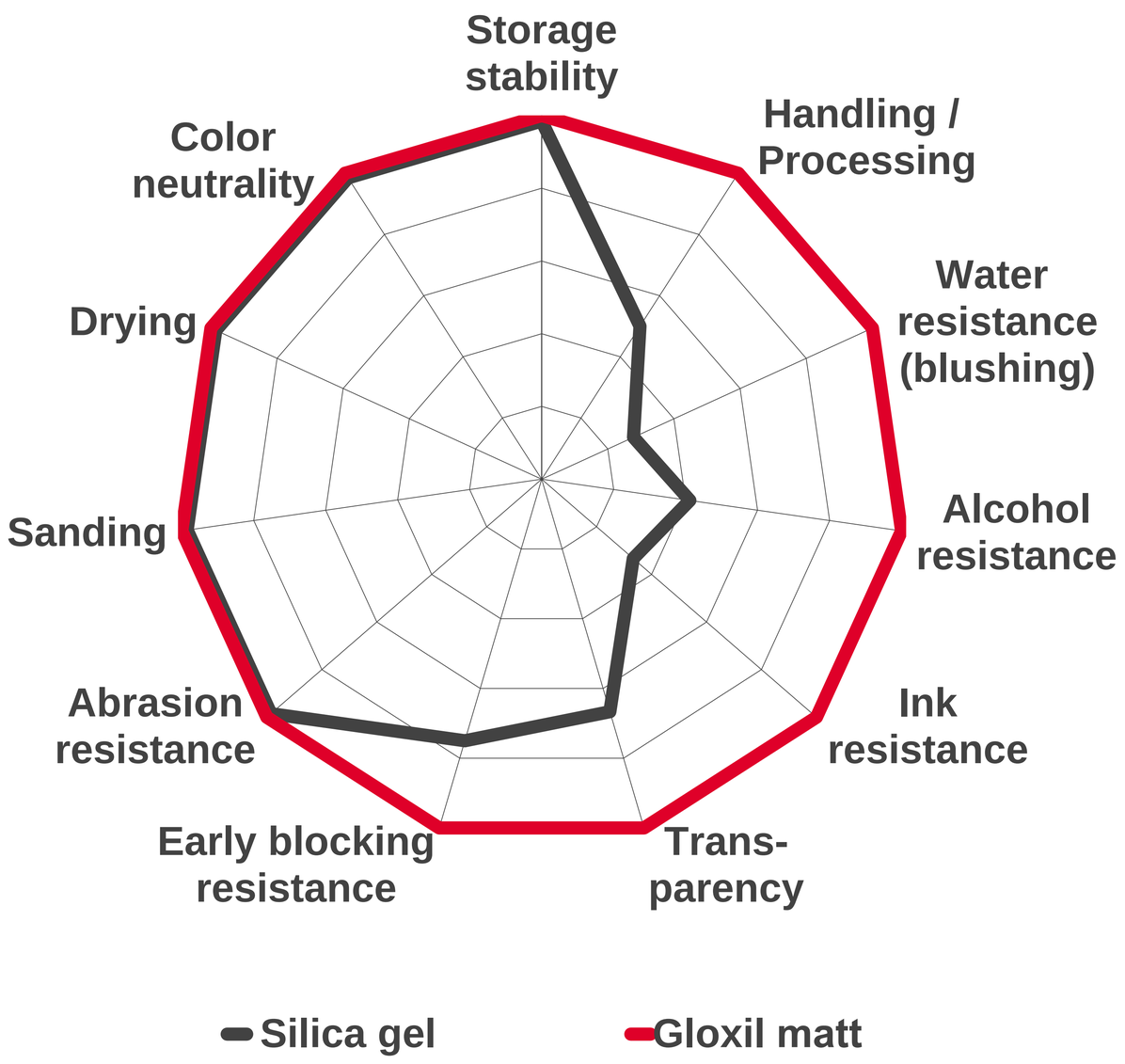
Gloxil matt vs. Matting Agent Silica Gel in a Sensitive Binder Emulsion

FORMULATION

	Withouth	→ Increasing matting effect			
Parts by weight [pbw]	**Control**	**Silica gel**	**Gloxil matt**		
Alberdingk AC 2514	79.4	79.4	79.4	79.4	79.4
Byk 024	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
Water demineralized	7.5	7.5	7.5	7.5	7.5
Silica gel	-	2.5	-	-	-
Gloxil matt	**-**	**-**	**2.0**	**4.0**	**6.0**
Aquamat 272	3.3	3.3	3.3	3.3	3.3
Byk 346	0.4	0.4	0.4	0.4	0.4
DSX 1514	0.5	0.5	0.5	0.5	0.5
Total	99.9	102.4	101.9	103.9	105.9
Solids content w/w [%]	37.2	38.7	38.4	39.6	40.7
PVC [%]	0.0	3.9	4.7	9.0	12.9

RESULTS AND ADVANTAGES

At comparable gloss (60°) ~ 15 - 20 units



Gloxil matt advantages:

+ easier handling / processing
+ earlier blocking resistance
+ very high transparency and wood grain enhancement with long term stability
+ excellent and early water and stain resistance

Maintaining:

- quick drying / sanding
- good mechanical properties
- very strong matting effect
- high metal marking resistance

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HANDLING / PROCESSING PROPERTIES

Powder material	Silica gel	**Gloxil matt**
Bulk volume equal weight		
Reduced adhesion on surfaces		

Paint preparation	Silica gel	**Gloxil matt**
Reduced dust formation	😐	☺
Incorporation	😐	☺
Dispersibility	😐	☺
Reduced foam formation	😐	☺

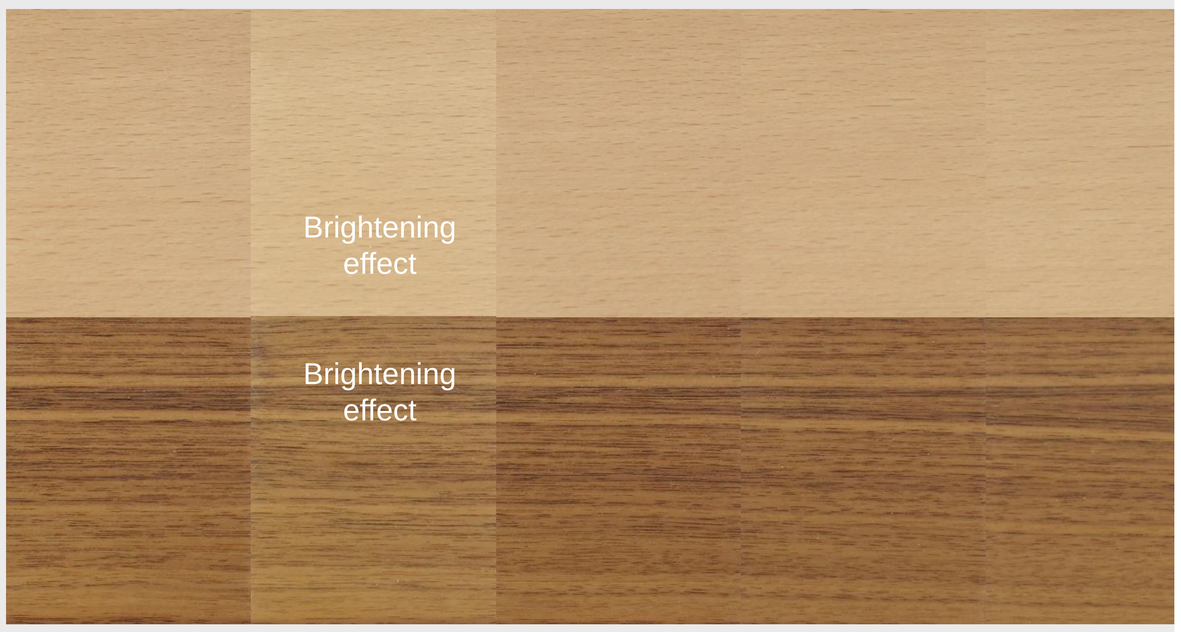
Early blocking resistance

Without matting	Silica gel	**Gloxil matt**		
---	2.5 pbw	2.0 pbw	4.0 pbw	6.0 pbw
Tack	7	6	7 - 8	8	9
Seal (Peeled off)					

ASTM D 4946 / DFT 35 µm, Drying 24 h, Pressing 24 h 100 g/cm²

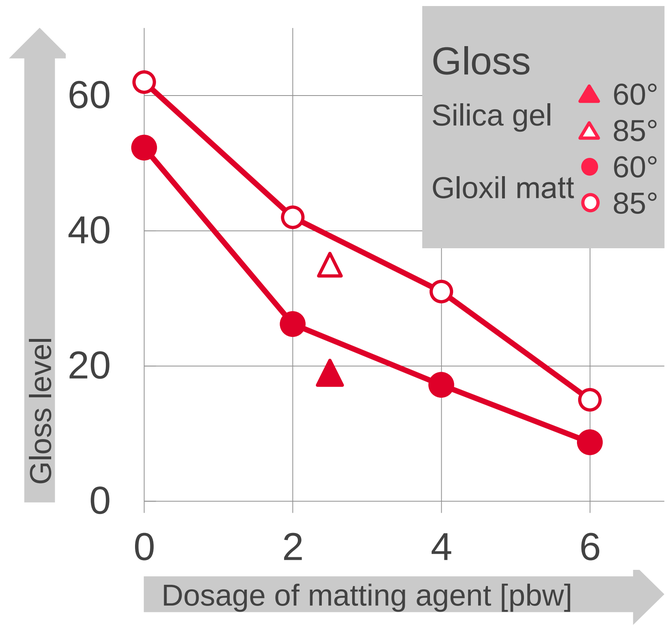
OPTICAL PROPERTIES

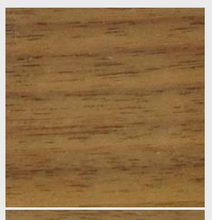
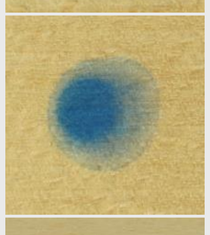
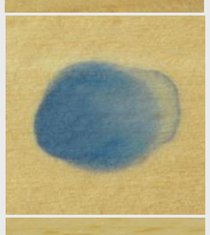
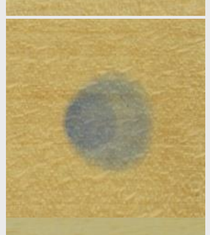
Appearance on wood



DFT 105 µm (3 x 35)

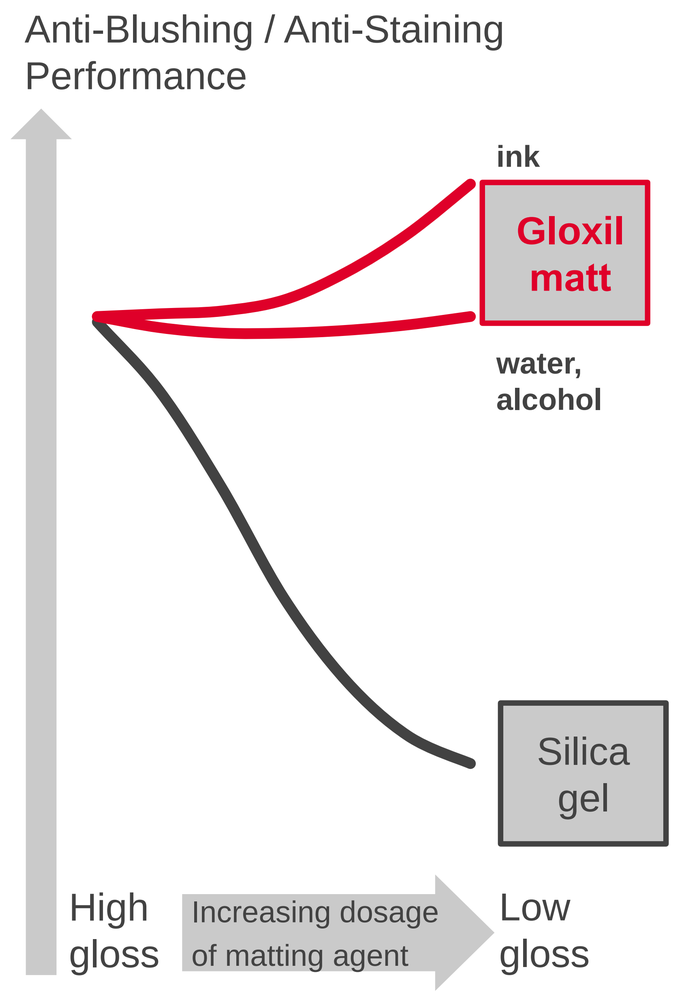
Drying 28 d at 23°C / 50% RH



	Drying	Exposure	Without ---	Silica gel 2.5 pbw	**Gloxil matt** 2.0 pbw	**Gloxil matt** 4.0 pbw	**Gloxil matt** 6.0 pbw
Water comparable results with ethanol 48 %	15 h	1 h					
	15 h	16 h					
	28 d	16 h					
Ink	15 h	1 h					
	15 h	5 h					
	28 d	16 h					

RESISTANCE PROPERTIES

vs. Gloss Level / Dosage



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For questions or enquiries, feel free to reach us at info@xatico.com or check your local contact at www.xatico.com