

GLOXIL MATT

IN WATER-BASED CLEAR COATS FOR WOOD

OBJECTIVE

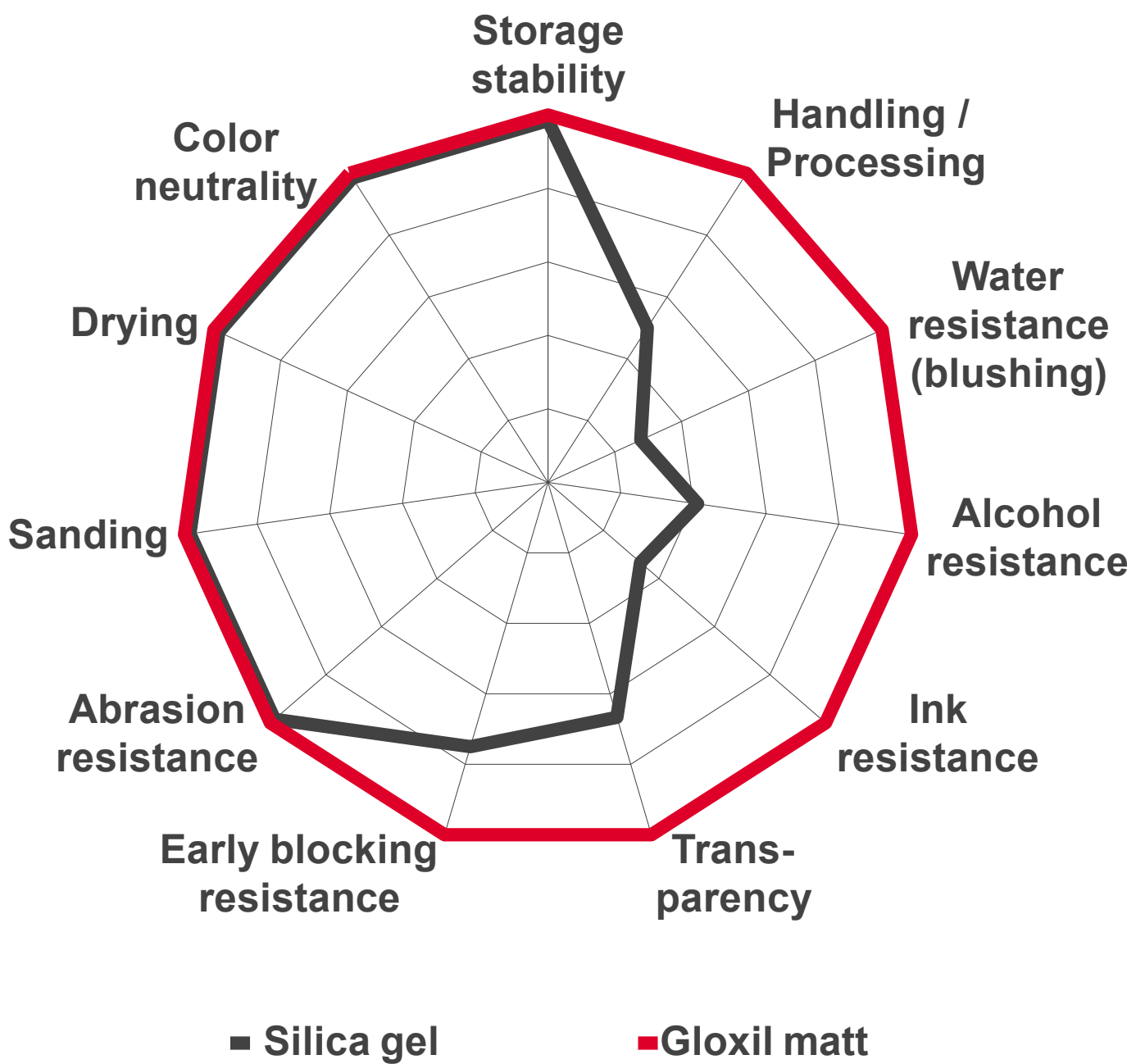
Gloxil matt vs. Matting Agent Silica Gel in a Sensitive Binder Emulsion

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:

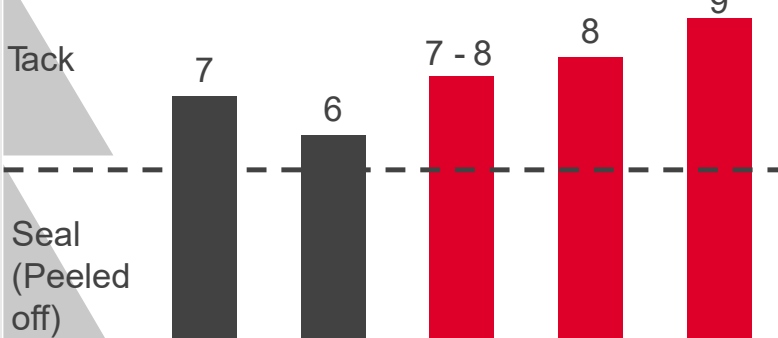
- + easier handling / processing
- + earlier blocking resistance
- + very high transparency and wood grain enhancement with long term stability
- + excellent and early water and stain resistance

Maintaining:

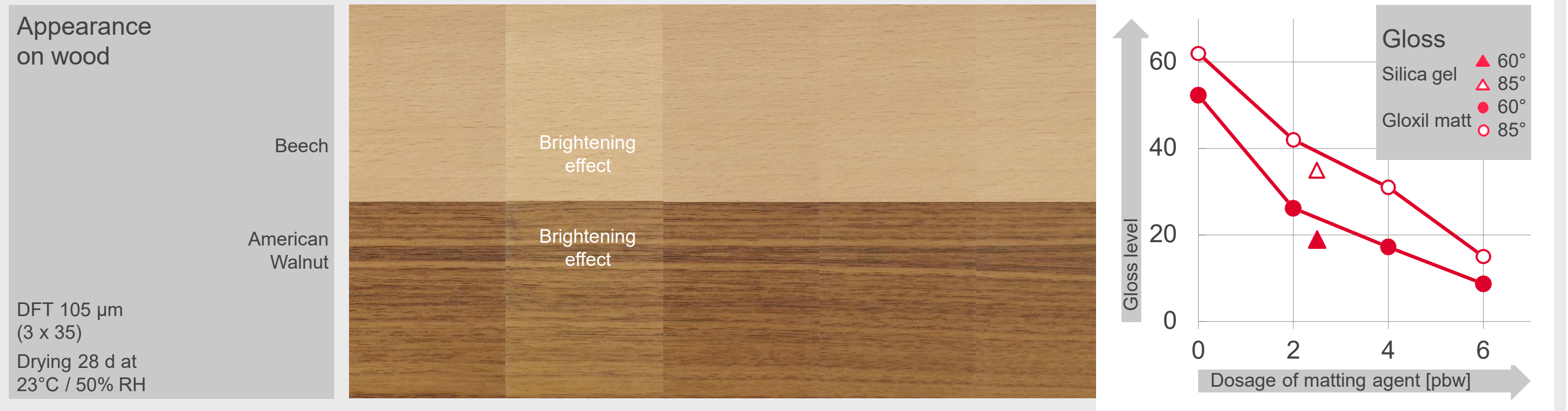
- quick drying / sanding
- good mechanical properties
- very strong matting effect
- high metal marking resistance

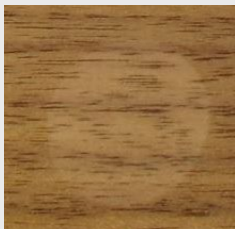
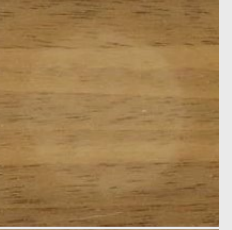
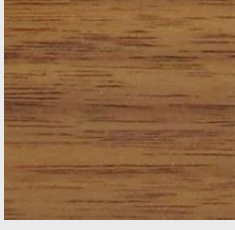
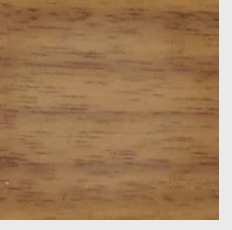
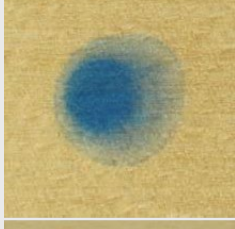
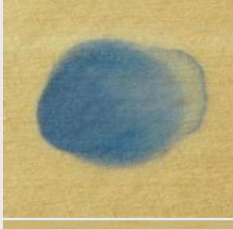
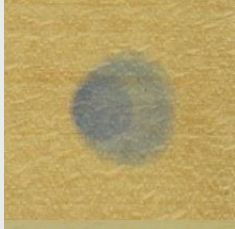
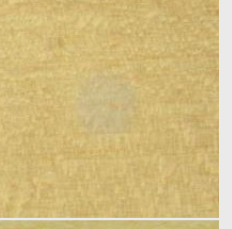
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HANDLING / PROCESSING PROPERTIES

Powder material	Silica gel	Gloxil matt	Paint preparation	Silica gel	Gloxil matt	Early blocking resistance										
Bulk volume equal weight			Reduced dust formation			<table><tr><th>Without matting</th><th>Silica gel</th><th colspan="3">Gloxil matt</th></tr><tr><td>---</td><td>2.5 pbw</td><td>2.0 pbw</td><td>4.0 pbw</td><td>6.0 pbw</td></tr></table>	Without matting	Silica gel	Gloxil matt			---	2.5 pbw	2.0 pbw	4.0 pbw	6.0 pbw
Without matting			Silica gel	Gloxil matt												
---	2.5 pbw	2.0 pbw	4.0 pbw	6.0 pbw												
Reduced adhesion on surfaces			Incorporation													
			Dispersibility													
			Reduced foam formation													

OPTICAL PROPERTIES



			Without ---	Silica gel 2.5 pbw	2.0 pbw	4.0 pbw	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		Blushing effect 			
	15 h	5 h					
	28 d	16 h					

RESISTANCE PROPERTIES

vs. Gloss Level / Dosage

