# GLOXIL WW SL in water-based clear coats, i. e. for wood acrylic emulsion

## Objective

Gloxil WW SL vs. Silica Matting Agents in a Sensitive Binder Emulsion

## Formulation

| Parts by weight [pbw] | Fumed Silica | Prec. Silica | Gloxil WW SL | | |
|---|---|---|---|---|---|
| Alberdingk AC 2514 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 |
| 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 | - | - | - |
| **Matting Agent** | **2.5** | **2.5** | **7.7** | **15.4** | **23.1** |
| Aquamat 272 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| Byk 346 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Rheovis PU 1214 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| **Total** | **102.5** | **102.5** | **100.2** | **107.9** | **115.6** |
| Solids content w/w [%] | 38.7 | 38.7 | 39.2 | 38.4 | 37.7 |

## Summary

**Gloxil WW SL** shows already known effects of silica matting agents, but offers the following additional benefits


- Slurry without dust formation
- Highly improved metering and incorporation
- Easier and time-reduced mixing without dispersion process
- Foam-suppressing effect
- Better early blocking resistance
- Very high transparency with good long term stability and wood grain enhancement
- Strong matting effect
- Superior early water and stain resistance
- Easy matting level adjustment via post-addition

✓ Efficient easy & ready to use liquid matting additive: Cost & time saving, highly versatile and with enhanced performance

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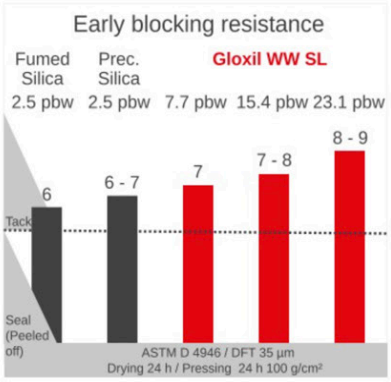
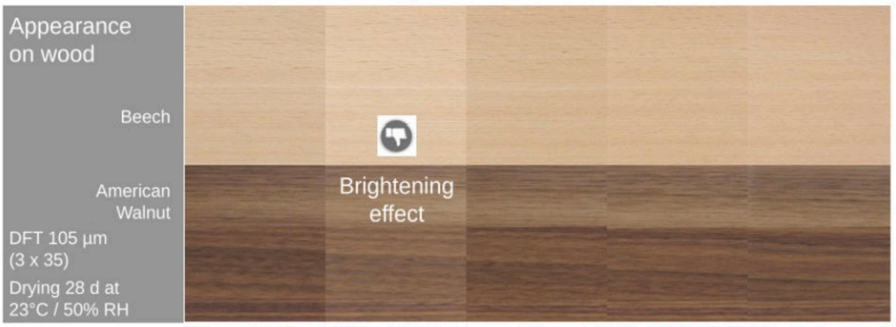
## Results

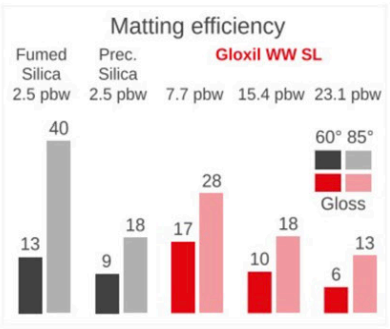
### Handling / Processing

| Matting Agent | Fumed Silica | Prec. Silica | Gloxil WW SL |
|---|---|---|---|
| Bulk / Liquid volume | 2.5 pbw | 2.5 pbw | 7.7 pbw / 15.4 pbw / 23.1 pbw |
| Dust prevention | no | no | completely |
| Dosing / Wetting | 1-2 min | 1 min | 10 sec |
| Dispersing / Mixing | High shear | 10-15 min | 1-2 min, Low shear |
| Foaming | strong | strong | no |

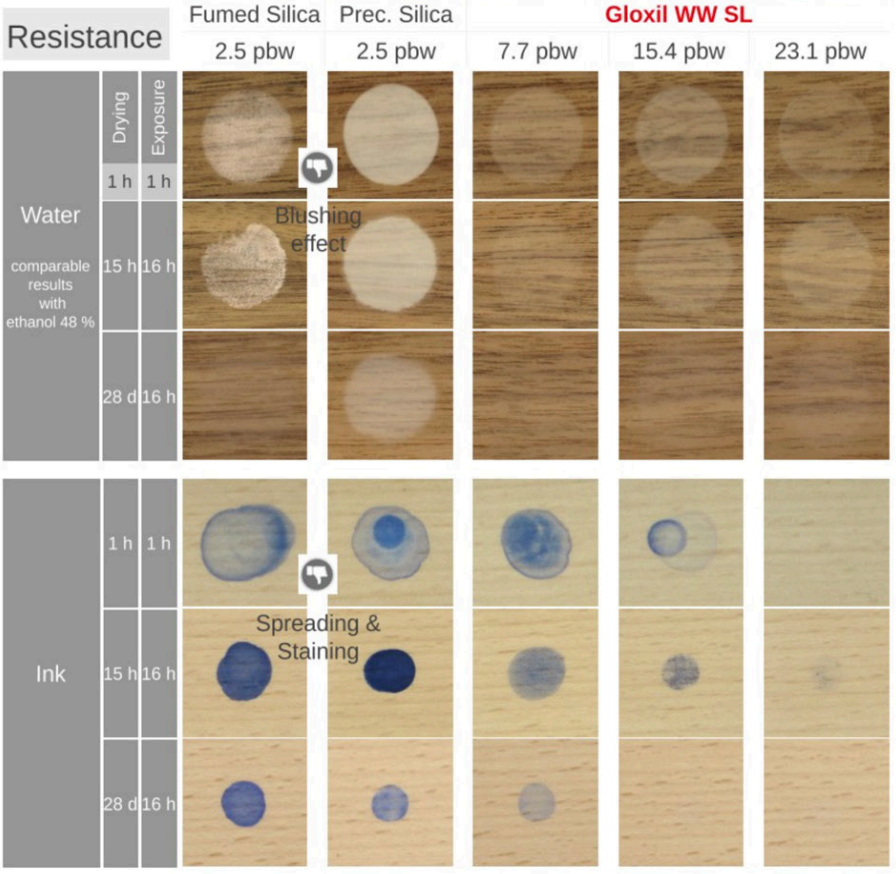



### Optical Properties




### Resistance




### vs. Gloss Level / Dosage