

Raybo 3 AntiSilk – Enhanced Weathering Through Enhanced Film Formation

Resin manufacturers and formulators incorporate solvents, such as t-Butyl Acetate, MEK, and Acetone into their products to accelerate drying or to meet VOC requirements. Often these solvents have high evaporation rates or may not be fully compatible with the resin, which can lead to film imperfections. The incorporation of Raybo 3 AntiSilk at 0.5 to 1.0% (on total formulation) does the following:

- Eliminates the surface imperfections
- Increases initial gloss
- Improves gloss retention during QUV weathering



Suggested Formula: Low VOC High Solids Medium Oil Alkyd Cat Yellow with 1% Raybo 3 AntiSilk

Use high speed dispersion to mix the following:

* Hexion EX-641 ¹	178.4
Raybo 273 OptiSpere ²	5.1
Ti Pure R-900 ³	20.0
Hitox ⁴	29.8
Bayferrox 3910 Yellow Oxide ⁵	123.8

Disperse to 6.5+ Hegman Grind, then add the following:

* Hexion EX-641 ¹	209.5
* t-Butyl Acetate ⁶	77.3
VM&P Naphtha ⁷	193.3
18% Zirconium Hex-Cem ⁸	3.9
6% Cobalt Ten-Cem ⁸	1.6
5% Calcium Ten-Cem ⁸	9.4
Dri-RX HF ⁸	0.5
Skino #2 ⁸	4.6
Raybo 3 AntiSilk ²	8.6

Physical Properties:

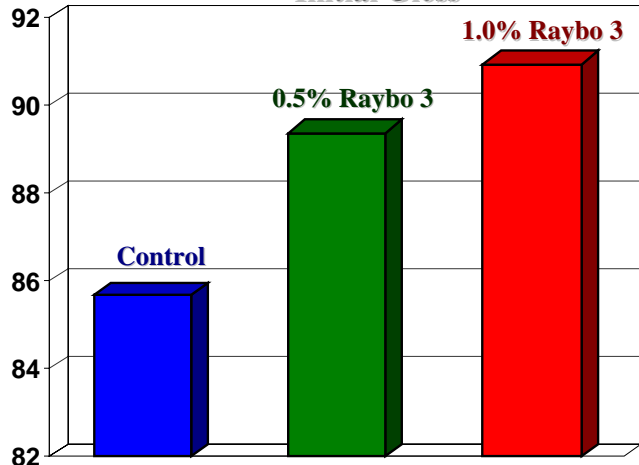
Grind (Hegman)	6.5+
Viscosity (sec, #2 Zahn Cup)	17-20
Total Weight	865.8
Density (lbs/gal)	8.65
% Weight Solids	47.37
% Volume Solids	34.29
PVC%	14.96
* VOC (lbs/gal, with exempt solvent)	2.26
* VOC (lbs/gal, minus exempt solvent)	3.21

Suppliers:

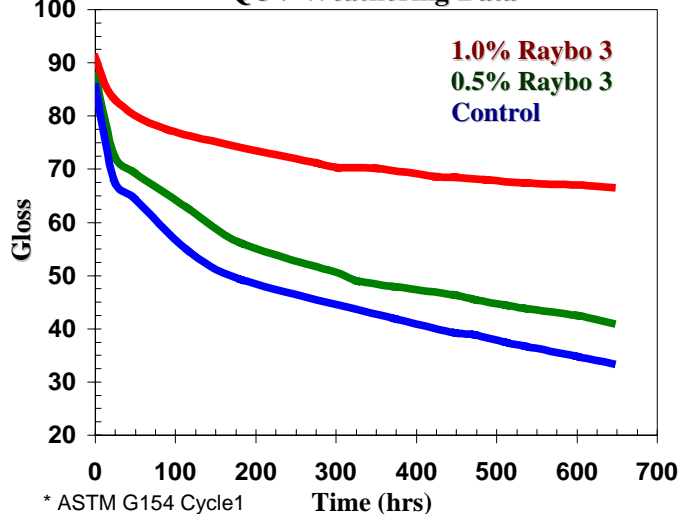
- 1 Hexion Specialty Chemicals, Inc.
- 2 Raybo Chemical Co.
- 3 DuPont
- 4 TOR Minerals International, Inc.
- 5 Lanxess Corp.
- 6 Lyondell Chemical Co.
- 7 Ashland Inc.
- 8 OM Group, Inc.

* Note: t-Butyl Acetate is VOC and HAP exempt

Initial Gloss



QUV Weathering Data *



* ASTM G154 Cycle1