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Tallicin® Grinding Vehicle 1510

ADDITIVE FOR THE PREPARATION OF ANTI-SETTLING
PIGMENT DISPERSIONS

TYPICAL CHARACTERISTICS

Non-Volatile	Not Less Than 50.0%
Viscosity	<50 Seconds (#4 Ford Cup)
Flash Point	41°C.
Color	5-6 Gardner, Max.
Density	7.88-7.98 Lb./Gal.

COMPATIBILITIES

Tallicin® Grinding Vehicle 1510 is recommended for use with a broad spectrum of resin systems, including long, medium and short oil alkyds, vinyls, hydroxylated and nonhydroxylated polyesters, saturated and unsaturated polyesters, urethanes (both completely reacted and hydroxylated polyesters for two-component systems), epoxies, acrylics, nitrocellulose and melamines.

APPLICATIONS

Tallicin® 1510 is a specialty acrylic resin designed to produce very high quality pigment dispersions in a wide variety of coatings, inks and plastic systems. When used alone or in conjunction with the existing resin in a formulation, Tallicin® 1510 typically lowers the viscosity of the pigment paste or provides a higher pigment loading for the system. Tallicin® 1510 can impart extremely effective anti-settling properties by the addition of 0.25-0.50% by weight of bentone clay into the grinding paste along with the pigment. Tests with a variety of pigments indicate the combination of Tallicin® 1510 with the addition of a small quantity of bentonite clay produces an extremely stable, non-settling pigment dispersion in both the paste and in the finished product.

KEY FEATURES

- Produces very high quality pigment dispersions.
- Compatible with a wide variety of resins and pigments.
- Imparts effective anti-settling characteristics.
- Allows faster grinding and often achieves "off the gauge" grind.
- Infinite solubility with Mineral Spirits.

RECOMMENDED USE LEVEL

Tallicin® 1510 is effective as a grinding vehicle for various pigments, including those that are difficult to disperse. Listed is a recommended range for the pigment to binder ratio for the following pigments:

Pigment	Pigment loading Tallicin® 1510 solids
Carbon Black	.67-1.5
Phthalo Blue	1.0-2.5
Toluidene Red	.67-1.5
Phthalo Green 7	1.0-2.0

FORMULATION SUGGESTION: CARBON BLACK DISPERSION Pebble Mill with 1/4" Steel Balls	
MATERIALS	PER CENT BY WEIGHT
Raven 1255	20.00
Tallicin® 1510	53.00
Tallicin® K-2	0.50
Xylene	26.10
Bentone 34	0.25
Acetone	0.15
TOTAL	100.00
<p>RESULTS: Pigment-to-Binder ratio is 0.75. The grind was off the Hegman gauge in 7 hours. No hard settling was observed after one year. No shock seeding occurred when let-down into various formulations tested, including acrylic, vinyl, nitrocellulose, VT alkyd, chain-stopped alkyd, urethane, epoxy and polyester.</p>	
<p>SUPPLIERS: Raven 1255 Carbon Black.....Columbian Chemicals Co. Bentone 34 Bentonite Clay..Rheox Inc. Tallicin® K-2 Dispersant.....Pflaumer Brothers, Inc.</p>	

CONTAINER SIZES

5 Gallon Pails and 55 Gallon Drums.