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Tallicin ® Grinding Vehicle 1550

FOR PREPARATION OF HIGH-SOLIDS PIGMENT DISPERSIONS

TYPICAL CHARACTERISTICS

Non-Volatile	90.0% By Weight, Min.
Viscosity	W-Y (Gardner-Holt)
Flash Point (TCC)	45°C.
Color	10 Gardner, Max.
Weight per Gallon, Lbs	8.3 ± 0.1 Lb./Gal.

COMPATIBILITY

Tallicin® Grinding Vehicle 1550 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®1550 is designed to produce very high quality pigment dispersions in a wide variety of coatings, inks and plastic systems at higher solids than conventional dispersants and grinding vehicles. When used in conjunction with the existing resin in a formulation, Tallicin®1550 typically lowers the viscosity of the pigment paste or provides a higher pigment loading for the system, or both. In addition, Tallicin® 1550 can also produce a finished product after let-down that has extremely effective anti-settling characteristics.

Tallicin® 1550 can impart extremely effective anti-settling properties by the addition of 0.25-0.50%by weight of bentonite clay into the grinding paste along with the pigment. Tests with a variety of pigments indicate the combination of Tallicin® 1550 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.

When used in accord with these recommended procedures, Tallicin® 1550 can be expected to:

1. Allow faster grinding, often achieving "off the gauge" grind in a pebble mill in the same time normally required to produce a 7 Hegman reading;
2. Provide better dispersion of most pigments, producing an 8+ grind in 6-12 hours, depending on the pigment, with 1/4-inch standard steel ball grinding media; and
3. Permit the use of bentonite clay in the dispersion paste to eliminate the need for post-adding bentonite gel or self-dispersing bentonite clay to achieve anti-settling characteristics. Tallicin® 1550 enhances the effectiveness of bentonite clay to minimize pigment settling by adding the clay into the grind paste, often reducing the amount of clay used for this purpose up to 80%.

FEATURES

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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.

PROUDUCT USES (For professional use only. Not intended for retail sales.)

Tallicin® 1550 is effective as a grinding vehicle for various pigments, including those that are difficult to disperse. It can be incorporated into the grind as the sole resin or along with the formulation resin prior to the addition of pigment and prior to the addition of bentonite clay. When using Tallicin® 1550 as the sole resin, the level of addition will have to be experimentally determined for each pigment. When using Tallicin® 1550 in conjunction with the formulation resin, the recommended level of addition is in the range of 4-8% of the total batch weight. A higher level of Tallicin® 1550 may be required for higher oil-absorbing pigments such as phthalo blue or carbon black.

CONTAINER SIZES

5 Gallon Pails and 55 Gallon Drums.

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