



Tallicin® Grinding Vehicle 1525

Imparts Improved Flow and Leveling in High Solids Coatings

FOR PREPARATION OF ANTI-SETTLING PIGMENT DISPERSIONS

TYPICAL CHARACTERISTICS

| | |
|------------------------|---------------------------|
| Non-Volatile | 50.0% By Weight, Min. |
| Viscosity | <20 Seconds (#4 Ford Cup) |
| Flash Point (TCC) | 45°C. |
| Color | 5-6 Gardner, Max. |
| Weight per Gallon, Lbs | 7.79 ± 0.2 Lb./Gal |

COMPATIBILITY

Tallicin® Grinding Vehicle 1525 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®1525 is designed to produce very high quality pigment dispersions in a wide variety of coatings, inks and plastic systems. When used in conjunction with the existing resin in a formulation, Tallicin® 1525 typically lowers the viscosity of the pigment paste or provides a higher pigment loading for the system, or both. In addition, Tallicin®1525 can also produce a finished product after let-down that has extremely effective anti-settling characteristics. In using Tallicin® 1525, it is recommended that a film-forming resin and/or plasticizer compatible with the system be incorporated into the pigment grind so that the paste is semi-film forming and non-flaking to facilitate storage and handling of the finished paste.

Tallicin® 1525 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® 1525 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® 1525 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;

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2. Provide better dispersion of most pigments, producing an 8+ grind in 12-48 hours, depending on the pigment, with 1/2-inch standard ceramic 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® 1525 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

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.

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

Tallicin® 1525 is effective as a grinding vehicle for various pigments, including those that are difficult to disperse. It is incorporated into the grind along with the formulation resin prior to the addition of pigment and prior to any addition of bentonite clay. The level of addition recommended is in the range of 3% to 6% of the total batch weight of the paste for most standard pigments. A higher level of Tallicin® 1525 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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