

ETHOX CHEMICALS LAUNCHES NEW DISPERSANTS FOR COATINGS AND INKS

ETHOX CHEMICALS introduces two new dispersants for the ink and coatings industry. Esperse™ 100 is a highly efficient anionic dispersant for pigmented water-based resin-free formulations. The benefits of Esperse™ 100 use are: low dispersion viscosity, high degree of color development, high pigment loadings. Typical use levels range from 10—21% by weight based on pigment weight. Optimum use level is determined by pigment surface area and chemistry.

Esperse™ 506 provides similar benefits in aqueous systems where resin is incorporated as a part of the grind composition. Esperse™ 506 allows for reduction of resin needed in the grind phase, which increases formulation flexibility. Additionally, thixotropy and pseudoplasticity are highly reduced, and color stability maximized. Esperse™ 506 is nonionic and APE-free. Typical use levels are 2.6% - 6.6% based on pigment weight; pigment to binder ratios can be increased to the 5/1, 6/1 or 7/1 level based on pigment surface area.

Both additives are suitable for

use in formulas which contain organic and inorganic pigments such as carbon black, phthalo blue, arylide and diarylide yellows, metallized azo red pigments, and titanium dioxide. Additive use levels will vary slightly depending on the pigment; a ladder study is suggested for optimal results.



Additionally, blends of Esperse™ 100 and Esperse™ 506 are also effective in certain formulations. Optimization of rheological properties and pigment loading can be maximized in some cases by blending these additives in 75/25 or 50/50 proportions. Call us with your specific requirements and we would be glad to assist you with suggested formulations and use ratios.



Esperse 506 provides a highly flowable dispersion with high pigment loading, as seen on the right. A competitive product, on the left, produced a highly viscous and pseudoplastic dispersion at equal pigment loading.

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Since its formation in 1968, Ethox Chemicals has served industry with quality products and service. The concept of specialized service to each customer has proven successful over the years, and it is the concept that Ethox strives to maintain. The application of this concept to the ink and coatings industries has resulted in our latest development, a universal pigment dispersant system for resin- and non-resin-containing dispersions.

Ethox Chemicals, LLC is located in Donaldson Industrial Park, Greenville, South Carolina, on a 40-acre site. Along with three affiliates, Piedmont Chemical, Custom Synthesis, and Dooley Chemicals, Ethox provides a broad range of technology and products.