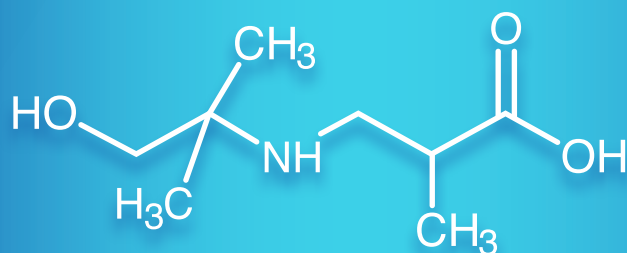


FRESHSPERSE AM50*



FRESHSPERSE AM50 is a new odorless zero-VOC multifunctional product for paints and coatings that is supplied as a 50% aqueous solution.

FRESHSPERSE AM50 enables formulators to achieve VOC levels from 50 g/l to zero, depending on polymer Tg.

For optimum performance, add FRESHSPERSE AM50 slowly to water only. Additional grinding resin or emulsion is not recommended. FRESHSPERSE AM50 will coalesce the resin and the grind phase may become too viscous to achieve a good grind.

In the grind, a use level of 0.5% to 2.0% on a formulation weight/weight basis is recommended.

FRESHSPERSE AM50 is a zwitterionic product that does not increase pH beyond the 7–8 range prior to neutralization. It is recommended that the resin system with the desired pH of 9–10.5 is utilized. If needed, neutralizing with existing amines, lime, calcium hydroxide, potassium hydroxide or caustic will buffer and stabilize the system; however, neutralizing with an aqueous salt of zinc brings other unique properties.

FRESHSPERSE AM50 is fungal resistant but water soluble. In the final step, just prior to pH adjustment, partially neutralize FRESHSPERSE AM50 (30.0% to 60.0%) with a water-soluble zinc salt. This will render FRESHSPERSE AM50 insoluble and greatly enhance the fungal resistance of coatings. Additionally, by rendering the dispersant insoluble, a more water- and chemical-resistant film is achieved. The addition of zinc in this way yields a well-dispersed and immobile form that is a particularly effective way of imparting anticorrosive properties in coatings.

*Patent pending or covered by US Patent 7,851,652 and others.

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