

DELTA specialties

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Product Selection Guide
SPECIALTY ADDITIVES

SPECIFICATIONS & SUITABILITY BY INDUSTRY

Product name	Chemical type	Application/Usage	Dosage	Solvent-based	Water-based	Coatings	Graphic arts	Composite
DELTA-S® 5220	Fatty acid-based polymer (Color acceptance improver)	It is a multi-functional additive as it can be used as well as: Color acceptance improver, dispersant of choice for transparent iron oxides, dispersion control additive for inorganic pigments and extenders in water- and solvent-based systems and dispersant of choice for the preparation of slurries and matting agent dispersions	05.0-10.0% on inorganics and 10.0-20.0% on organics. 0.5-1.5% on total base weight as post additive					
DELTA-S® 5225	Multi-functional fatty-acid based polymer (APE-free)	It is a multi-functional additive as it can be used as well as: Color acceptance improver, sole dispersion control additive for the manufacturing of universal colorants for architectural paints (compatible with emulsion and alkyd paints) and dispersant of choice for transparent iron oxides. It can stabilize all kinds of pigments (Inorganic, Organic and black pigments) and provide excellent rheology and compatibility	05.0-10.0% on inorganics and 10.0-20.0% on organics. 0.5-1.5% on total base weight as post additive					
DELTA-S® 5700	Solution of ketoxime and phosphorous ester salt	Anti-gel agent and viscosity stabilizer for air-drying and stoving coating systems. It delays/prevents thickening, which can occur as a result of oxidation or condensation of the binder. It also reduces the reaction of the pigments with the vehicle. It is usually added prior to grinding, but already gelled materials can be restored to processing viscosity by the addition of DELTA-S® 5700	0.5-1.0% upon total formulation weight					
DELTA-S® 5745	Synergist additive for phthalocyanine and carbon black pigments. Suitable for coatings and printing inks	It is a polar pigment derivative (dyestuff), which is used in conjunction with polymeric dispersants (DELTA-DC® 3000-series) to enable efficient anchoring of the dispersant to the pigment. It is primarily used with certain difficult non-polar organic pigments (Phtalocyanine blue and green pigments) and carbon black pigments, which do not enable good interaction with common dispersant anchoring groups	0.5%-1.0% upon total formulation weight					
DELTA-S® PN	Liquid rheology control additive with a unique thixotropic profile for use in water-based coatings	It builds its thixotropic structure through interaction of its molecules with the reactive groups distributed over the polymer of the latex emulsion or thickener. This interaction occurs through hydrogen and covalent bonding creating a network structure. Upon shear (application), the network structure almost completely breaks. Right after shear removal, the network structure rebuilds again preventing sagging	0.5%-2.0% upon total formulation weight					
MORDRY® 410	Replacement for Cobalt drier (with relatively lower level of toxicity compared to cobalt octoate)	Highly efficient replacement for cobalt drier in urethane-modified alkyds and high-end alkyds. Compared to cobalt octoate, it can offer superior properties such as the minimization of discoloration of clear varnishes in can, improved alkali resistance and increased yellowing resistance of the finishes especially those subjected to prolonged heat or alkaline fumes. It prevents 'loss of dry' on aging	0.5-0.7 kg with 1.0-2.0 kg Ca 10 and 3.5-5.0 kg Zr 12 (upon 100 kg of vehicle solids)					
MORDRY® 410 WD	MORDRY® 410 WD is the water-dispersible version of MORDRY® 410 suitable for water-reducible coatings	It can be efficiently applied in all water-reducible clear-coats and pigmented systems. The product provides rapid surface drying and helps through-drying of the applied film. It provides a homogeneous distribution and therefore a quick drying and most of all good drying stability can be achieved. MORDRY® 410 WD is characterized by being APE-free and easily emulsifiable	0.5-0.7 kg with 1.0-2.0 kg Ca 10 and 3.5-5.0 kg Zr 12 (upon 100 kg of vehicle solids)					
MORDRY® AWD	Cost-effective metal-free accelerator and stabilizer for water-borne coatings	Waterborne coatings are prone to loss-of-dry upon extended storage. These compounds coordinate with the drying metals, specifically Co and Mn, and promote faster drying. This complexing action protects the active metals from hydrolysis over time and minimizes loss-of-dry in the waterborne formulation. This enhanced activity can also be seen in improved water resistance and higher gloss	8 to 17 parts by weight for each part of Co or Mn (as metal)					

Suitable