eSperse wetting and dispersing agents

These additives have two main functions; to wet out pigment particles and to disperse such particles efficiently to form stable dispersions. Significant substrate wetting may also be achieved allowing the coating to spread evenly over the substrate surface. The range includes additives for both aqueous and non- aqueous systems.

For aqueous systems

Product	Chemistry	Application
eSperse 1331	Phosphate ester	Highly effective dispersing agent for aqueous binder free pigment pastes. Recommended for iron oxides, titanium dioxide and other inorganic pigments.
eSperse M500	Sodium/potassium co-polyacrylate salt	Excellent dispersing and wetting agent for aqueous binder and solvent free pigment pastes. Universal pigment pastes are easily formulated for incorporation into aqueous and solvent based alkyd coatings. Effective with both organic and inorganic pigments.
eSperse 1488	Sodium co-polyacrylate salt	Excellent dispersing and wetting agent for inorganic pigments and binders in aqueous systems.
eSperse 1346	Polyoxyalkylene glycol ester	Non-ionic surfactant with excellent wetting and dispersing properties for use in aqueous binder and solvent free pigment pastes. Low foaming and readily biodegradable. FDA approved.
eSperse 1459	Polyoxyalkylene glycol ester	Non-ionic surfactant with excellent wetting and dispersing properties in aqueous binder and solvent free systems. Can be used with anionic and cationic surfactants. Can be used in emulsion polymerisation. Readily biodegradable . FDA approved.
eSperse 1475	Polyoxyalkylene glycol ester	Non-ionic surfactant primarily used in emulsion polymerisation. Readily biodegradable. FDA approved.
eSperse 1393	Polyether polyester	A polymeric pigment wetting and dispersion for water based coatings.
eSperse 1389	Sodium Di-octyl sulphosuccinate	Wetting agent in aqueous coatings, printing inks and related systems. Imparts good wetting properties and is particularly suitable for difficult-to-wet substrates
Lomar PWY	Sodium neutralised, condensed naphthalene sulphonic acid	A highly effective dispersant for pigments, extenders, and fillers in aqueous media. It retains its dispersing ability over a broad pH range and is especially efficient at pH 9-10.
Lomar D	Sodium neutralised, condensed naphthalene sulphonic acid	A higher molecular version of Lomar PWY; and consequently a more effective dispersant.

For non-aqueous systems

Product	Chemistry	Application
eSperse 188	Polyoxyalkylene ester	A universal non-ionic dispersing agent for pigments and fillers in manufacture of paints and pigment preparations for non-aqueous and aqueous systems. It has proved particularly effective in systems formulated with difficult-to-disperse pigments e.g. certain phthalocyanine blue or green shades.
eSperse 1357	Blend of non-ionic oil soluble chemicals	Used in a wide range of solvents for rapid pigment dispersion, sag and flocculation resistance and anti-skinning properties.
eSperse 1390	Blend of oil soluble surfactants	Universally applicable additive for non-aqueous coatings. Recommended in systems based on alkyd resins, alkyd/melamine resins, acrylic and epoxy resins, chlorinated rubber, linseed oil/stand oil, etc.
eSperse 1391	Blend of anionic compounds	Anti-settling agent for non-aqueous coatings. Prevents sedimentation and agglomeration of pigments.
eSperse 1392	Polyether polyester	For high pigment loading in solvent based pigment dispersions and coatings (see figure below).

Graph shows the performance of new surfactant eSperse 1392