

## Wetting and Dispersing Agent

### GENERAL INFORMATION

NUOSPERSE® 2006 is an organic-solvent free, anionic, surface active compound which can be used as a wetting agent in aqueous as well as organic-solvent borne systems. It has excellent substrate wetting properties.

### PHYSICAL PROPERTIES

Appearance 20 °C	Clear liquid
Colour (DIN-EN 1557)	max. 100 Apha
Ionic character	anionic
Anion active content	62-65%
Dry content	75 - 78
pH solution, 1.5 % (ASTM D 1172)	5 - 7
Density, 20 °C	approx. 1090 kg/m <sup>3</sup>
Viscosity	approx. 450 mPa.s

### APPLICATION AND PROPERTIES

NUOSPERSE® 2006 is a highly effective multi-purpose auxiliary for the production of paints and lacquers.

Feature	Consequence
• Reduces surface tension to extremely low levels	- speeds up wetting of pigments and substrates
• Keeps surfactants of universal colorants from being adsorbed by the coloured base paint	- improves compatibility with universal colorants
• Solubilizes water in apolar solvents	- reduces phase separation
• No organic solvent	- environmentally friendlier coatings
• Reduces resistance of electrostatic spray paint	- allows for better application of spray coatings

The main applications of the product are:

- Compatibility with universal colorants:**  
 In many cases, NUOSPERSE® 2006 improves the compatibility between paint bases and universal colorants. NUOSPERSE® 2006 is used for this purpose in both dispersion and alkyd paints. Usually a concentration between 0.3 and 1.0 % NUOSPERSE® 2006, calculated on the total weight of paint will give satisfactory results and reduce the risk of rub-out or flocculation. NUOSPERSE® 2006 is preferably added before the grinding process of the pigments used in the base paint.
- Waterborne pigment concentrates:**  
 Pigment concentrates based on NUOSPERSE® 2006 in combination with NUOSPERSE® 2008 [1:4] are used for the shading of aqueous coatings such as flat and gloss dispersion paints, paper coatings, waterborne industrial paints etc. Normally up to 10% of the pigment slurry may be added to the coating.
- Resistance reducing action:**  
 In electrostatic spray paints, NUOSPERSE® 2006 is used to reduce the resistance. A concentration of maximum 1.5 % calculated on the total paint is in most cases sufficient to obtain a low resistance.

It is recommended to add NUOSPERSE® 2006 prior to the dispersing process because in this way the wetting properties of the product are utilised as well.

(continued)

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- *Various other uses:*

In dispersion paints NUOSPERSE® 2006 can be used as a wetting agent for hydrophobic pigments. Prior to the dispersing process, 0.1 - 1.0 % of NUOSPERSE 2006® calculated on the weight of the pigment concentrate should be added. The surface active properties of NUOSPERSE® 2006 will ensure that an optimum dispersing effect is obtained and hence a better colour intensity.

Pigments coated with NUOSPERSE® 2006 will have improved wetting with water.

NUOSPERSE® 2006 improves paint flow properties, especially in systems containing only a little solvent. For this, a concentration of ca. 0.5 % calculated on the weight of the paints is recommended.

In water borne inks, it may be used to enhance flow and levelling on hard to wet-out surfaces.

## HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS' can be found on the company website at [www.elementis-specialties.com](http://www.elementis-specialties.com).

## SHELF LIFE

NUOSPERSE 2006 has a shelf life of 2 (two) years from date of manufacture.

## QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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