

NUOSPERSE® 2008

Pigment Wetting and Dispersing Agent

GENERAL INFORMATION

NUOSPERSE 2008 is a unique solvent free/NO-VOC pigment dispersing agent specifically used in NO-VOC paints and pigment concentrates. The product is a liquid polymeric multi-functional surfactant and may be used in both aqueous as well as organic solvent based coatings and inks.

CHEMICAL & PHYSICAL PROPERTIES

Appearance 20°C	clear/slightly hazy liquid
Active content	100%
pH, 3% solution in water (ASTM D 1172)	6.5 - 7.5
Density, 20°C (ISO 2811-2)	approx. 1040 kg/m ³
Viscosity, 25°C (ASTM D 2196)	approx. 750 mPa.s
Solubility	soluble in water, ethylene glycol and xylene

These are typical properties not to be used for specification purposes.

APPLICATIONS

- **NUOSPERSE 2008** is strongly adsorbed onto various substrates. The various reactive sites in the **NUOSPERSE 2008** molecule explain the multi-functionality. Depending on the characteristic properties of the solid substrate, specific sites of the molecule will be attracted. This accounts for the excellent performance as a wetting and dispersing agent onto a very versatile collection of pigments.
- Using **NUOSPERSE 2008** in the system improves pigment wetting and stability, thus reducing the milling time. Flooding, floating and sedimentation are also inhibited.
- **NUOSPERSE 2008** displays excellent compatibility with **NUOSPERSE 2006** and a combination of these two products is recommended for dispersing both hydrophilic and hydrophobic (mostly organic) pigments in universal pigment concentrates.
- **NUOSPERSE 2008** is also successfully used to improve compatibility in base paints tinted with universal or aqueous colorants.

KEY PROPERTIES

FEATURE	CONSEQUENCE
• 100% active matter	- NO-VOC
• Strongly reduces surface tension	- speeds up wetting of the pigments
• Strong adsorption on a wide range of pigments	- improved color development - better and faster dispersion - reduces rub-up and color float - improved compatibility of universal colorants
• Electro-neutral compound	- active with acid, neutral and basic pigments

INCORPORATION

For maximum pigment wetting and dispersion, **NUOSPERSE 2008** should be added prior to the grinding stage.

LEVELS OF USE

We recommend the following dosages of **NUOSPERSE 2008**, calculated on the total weight of the coating:

as a pigment dispersant in water borne paints: 0.1 - 0.5%

in waterborne pigment concentrates: 1.0 - 5.0%

As the quality and production procedures of coatings may vary enormously, it is recommended to check applicability in each case separately.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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RHEOLATE[®] 2008

SHELF LIFE

NUOSPERSE 2008 has a shelf life of 3 (three) 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.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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