

NUOSPERSE® W-44

Pigment Dispersing Agent

GENERAL INFORMATION

NUOSPERSE W-44 is a multifunctional dispersing agent that can be used with all types of pigments to help provide full colour development and maximum production output. It is highly effective in wetting and dispersing pigments in waterborne systems, and stabilizing the finished dispersion to prevent reflocculation and viscosity drift.

This agent has been specially designed for low VOC architectural colorants, which can be used in both waterborne and solventborne paints.

NUOSPERSE W-44 is free of alkylphenoethoxylates (APEs) and suitable to formulate VOC complaint dispersions and dispersion paints. (EU directive 2004/42/EC).

NUOSPERSE W-44 Dispersing Agent will not lower gloss, or negatively affect drying time. In high gloss coatings, the improved dispersion obtained will often yield higher gloss and improved distinction of image.

CHEMICAL & PHYSICAL PROPERTIES

Appearance 20 °C	clear liquid / hazy liquid
Active content	96%
Viscosity, 23 °C mPa.s (ASTM D 2196)	800 - 1600
Density, 23 °C (ISO 2811-2)	approx. 1000 kg/m ³
pH (ASTM D 1172)	5.0 - 9.0

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

APPLICATIONS

- This agent can be used in the manufacture of tinting colours for architectural applications.
- **NUOSPERSE W-44** is compatible with most waterborne and solventborne architectural coatings vehicles and can also be used in light industrial applications.

KEY PROPERTIES

- Rapid pigment wetting
- Good flow at high pigment loading
- Full colour development
- Elimination of floating, flooding and rub-up
- Long-term viscosity stability

INCORPORATION

NUOSPERSE W-44 Dispersing Agent can do much more than simple surfactants, and can be used either as an additive to improve dispersion properties of coatings vehicles, or as the sole grinding vehicle to make highly concentrated dispersions.

LEVELS OF USE

In coatings and inks where pigment is dispersed in a water soluble resin, a 2% addition of **NUOSPERSE W-44** on the mill base portion of the formula will provide lower viscosity and increased pigment loading.

In the manufacture of concentrated tinting colours, 10% to 35% based on dry pigment, will give optimum performance, depending on the pigment used.

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.

STORAGE RECOMMENDATIONS

Do not freeze. Keep container tightly closed. Store at room temperature in the original container.

NUOSPERSE W-44 may phase separate. If this occurs, **NUOSPERSE W-44** can be easily homogenized by moderate mixing at room temperature.

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SHELF LIFE

NUOSPERSE W-44 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.

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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