



NUMBER 4201-4 (Supersedes 4201-3)

# Aquaflow™ NHS-300 nonionic synthetic associative thickener

*For High-Shear (ICI) Viscosity Build in Low-VOC Waterborne Paints and Coatings*

Aquaflow NHS-300 rheology modifier is a solvent-free, nonionic synthetic associative thickener (NSAT) designed for waterborne paint and coatings and is compatible with most latex resin systems. This thickener provides efficient ICI viscosity development, excellent film build and favorable brush drag. It is intended to be used in combination with a low-shear effective NSAT (KU driver) for the optimal balance of Stormer (KU) and ICI viscosity.

Aquaflow NHS-300 NSAT is compatible with acrylic, styrene-acrylic, vinyl-acrylic and vinyl acetate ethylene (VAE) latexes, and can be used in interior and exterior paint formulations.

## Typical Properties<sup>(a)</sup>

Chemical type.....	hydrophobically modified polyether
Appearance .....	white liquid
Solids, weight % .....	20
Carrier .....	Water
Viscosity <sup>(b)</sup> as supplied, mPa·s (cps).....	4,500-6,500
Density, lb/gal.....	8.64
g/mL .....	1.04

(a) Values are typical properties and are not to be regarded as product specifications.

(b) Brookfield LV readings at 25° C.

## Product Benefits

- Cost effective
- Superior flow and leveling
- Outstanding film build
- Excellent spatter resistance
- Solvent free
- pH insensitive
- Full gloss development
- Biostable

## Applications

In low-PVC paints made with small particle size hydrophobic latexes, Aquaflow NHS-300 NSAT can be the sole or primary rheology modifier. In other paints, using Aquaflow NHS-300 NSAT with NLS-200 NSAT or Natrosol™ Plus modified hydroxyethylcellulose (MHEC) often provides the optimum balance of high- and low-shear viscosity.

## Incorporation

Aquaflow NHS-300 NSAT is typically added to the letdown. When Aquaflow NLS-200 NSAT and NHS-300 NSAT are used together in small particle size latex paints, Aquaflow NHS-300 NSAT should be added first.

## Volatile Organic Compounds (VOC)

Aquaflow NHS-300 rheology modifier is formulated as solvent-free. As such, this product will have negligible contribution to the VOC content of formulated paints and coatings as determined by US EPA Reference Method 24.



## **Packaging and Storage**

Aquaflow™ NHS-300 NSAT is supplied in plastic drums of 200 kilos net or in totes of 1050 kilos net. It is recommended to use the product in rotation on a first-in-first-out basis. The product should be stored under dry and clean conditions at room temperature in its original packing away from heat.

## **Product Safety**

Please read and understand the Safety Data Sheet (SDS) before using this product.