



NUMBER 4239-4 (Supersedes 4239-3)

# Aquaflow™ NLS-220 nonionic synthetic associative thickener

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

Aquaflow NLS-220 rheology modifier is a nonionic synthetic associative thickener (NSAT) that provides efficient thickening (Stormer KU) and superior flow and leveling in waterborne coatings.

Aquaflow NLS-220 rheology modifier is solvent free and is supplied as a low-viscosity liquid for easy transfer and incorporation. This product significantly reduces or eliminates latex agglomeration in paints containing vinyl-acrylic and vinyl acetate-ethylene latexes.

Aquaflow NLS-220 rheology modifier functions primarily by self-association and interaction with other coating components. The performance of this product is independent of coating pH.

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

Chemical type .....	Hydrophobically modified polyether
Appearance.....	Amber Liquid
Total solids, weight % .....	20.5-22.5
Carrier .....	Water
Viscosity <sup>(b)</sup> , 25°C as supplied, mPa•s (cps).....	≤3,200
Density, lb/gal .....	8.7
g/mL .....	1.04
pH, as-is solution .....	7–8

<sup>a)</sup> Values are typical properties and are not to be regarded as product specifications.

<sup>b)</sup> Brookfield LV readings at 25°C.

## Product Benefits

- Solvent free
- Easy to pump and pour
- Superior flow and leveling
- pH insensitive
- Full gloss development
- Excellent spatter resistance
- Biostable

## Applications

Aquaflow NLS-220 rheology modifier can be used in a variety of paint formulations and is fully compatible with other rheology modifiers. For example, using Aquaflow NHS-300 rheology modifier in combination with Aquaflow NLS-220 rheology modifier will increase high-shear viscosity. Adding Natrosol™ Plus modified hydroxyethylcellulose can enhance sag resistance and colorant compatibility.

## Incorporation

Aquaflow NLS-220 rheology modifier can be added at any stage of the paint making process, either before or after the latex.



## **Volatile Organic Compounds (VOC)**

Aquaflow™ NLS-220 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 NLS-220 rheology modifier 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 SDS before using this product.