

## RHEOLATE<sup>®</sup> HX 6008 IF

Highly Efficient Nonionic Synthetic Associative Thickener (NiSAT)  
for High Shear-Rate Viscosity Build in Water-Borne Systems

### GENERAL INFORMATION

**RHEOLATE HX 6008 IF** is a 25% active high-shear (ICI) nonionic synthetic associative thickener (NiSAT) for aqueous applications. It is free of isothiazolinone type of preservatives. It develops high shear viscosity very efficiently with some mid-shear viscosity contribution in the newer very low-VOC demanding acrylic and styrene/acrylic latex systems, without sacrificing flow and leveling.

**RHEOLATE HX 6008 IF** also shows improved application properties in alkyd emulsion paints.

**RHEOLATE HX 6008 IF** contains very low VOC and is designed for use in latex paints and other waterborne systems where maintaining viscosity at high shear during product application and improved film leveling are required. The product is a pourable and pumpable liquid.

**RHEOLATE HX 6008 IF** can be used as a single thickener in small particle size latex systems or in combination with a co-thickener such as RHEOLATE 655 if more mid-shear viscosity is required.

### CHEMICAL & PHYSICAL PROPERTIES

Composition	polyether polyurethane resin solution in water
Appearance	opaque liquid
Active non-volatile content (% by weight)	25
Carrier solvent	100% water
Specific gravity	1.05
Viscosity (cps)	1,000 - 4,000
VOC (ASTM D 6886-03)	< 0.2%

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

### APPLICATIONS

- High quality, low VOC latex paints, particularly based on acrylic and styrene acrylic technologies

### KEY PROPERTIES

- Very high efficiency
- Compatible in all resin systems and especially efficient with acrylic and styrene acrylic resins
- Excellent balance of sag and leveling
- Outstanding flow and leveling
- Superior spatter resistance
- Easy to use

### INCORPORATION

**RHEOLATE HX 6008 IF** can be used as supplied or, if necessary, further diluted with water. Addition can take place at any time during the manufacturing process but incorporation into the mill base before letdown is recommended. **RHEOLATE HX 6008 IF** additive can be combined with other associative rheological additives, clay based thickeners or cellulosic thickeners for higher package viscosity.

**RHEOLATE HX 6008 IF** is an associative rheological additive and is generally more efficient as the particle size of the latex decreases. It is important to assess the effectiveness of **RHEOLATE HX 6008 IF** in the complete system, as performance is also affected by other raw material ingredients. Details of the associative nature of nonionic synthetic associative thickeners can be found in the Elementis Specialties RHEOLOGY HANDBOOK.

### LEVELS OF USE

Typical use levels of **RHEOLATE HX 6008 IF** are 0.1 % to 1.5 % (thickener solids weight) on total system weight.

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### 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

RHEOLATE HX 6008 IF should be kept above 4 °C (40 °F). In the event of accidental freezing, thaw gently, spread a portion between glass slides and examine for granules. If found, do not use.

### SHELF LIFE

RHEOLATE HX 6008 IF has a shelf life of 2 (two) years from date of manufacture and when stored in unopened packaging.

### 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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V01 May 2019

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