

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

GENERAL INFORMATION

RHEOLATE[®] HX 6008 is a 25% active high-shear (ICI) nonionic synthetic associative thickener (NiSAT) for aqueous applications. 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 also shows improved application properties in alkyd emulsion paints.

RHEOLATE[®] HX 6008 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 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.

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%

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 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 additive can be combined with other associative rheological additives, clay based thickeners or cellulosic thickeners for higher package viscosity.

RHEOLATE[®] HX 6008 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 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 are 0.1% to 1.5% (thickener solids weight) on total system weight.

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REGULATORY

For the most current regulatory status, please refer to the MSDS for RHEOLATE[®] HX 6008

HEALTH AND SAFETY DATA

Detailed information on handling and safety could be found in the material safety data sheet. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapours. Wash hands thoroughly after handling.

STORAGE RECOMMENDATIONS

RHEOLATE[®] HX 6008 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.

PACKAGING

Available in pails, drums and IBC packaging. Please contact your local Elementis Specialties representative for the packaging available in your region.

SHELF LIFE

RHEOLATE[®] HX 6008 has a shelf life of 24 months 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.

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