

RHEOLATE[®] HX 6025

Associative Thickener for High Shear-Rate Viscosity Build in Waterborne Systems

GENERAL INFORMATION

RHEOLATE HX 6025 is a VOC-free polyether polyurethane associative rheology modifier for aqueous applications. It is designed for use in latex paints and other waterborne systems including inks, textile coatings, adhesives and sealants where maintaining viscosity at high shear during product application and improved film leveling is required. This high shear associative thickener offers formulators efficient ICI contribution with minimal mid-shear rheology response.

RHEOLATE HX 6025 can be used alone with small particle size latex systems or in combination with a co-thickener such as RHEOLATE CVS-15 or RHEOLATE 655 if higher mid-shear (package) viscosity is required.

RHEOLATE HX 6025 has shown more efficient high-shear viscosity development and improved flow and leveling across all sheen levels in the newer VOC-free premium as well as in conventional coatings than most other viscosity modifiers. It provides excellent stain resistance properties and applied hide to products formulated with it.

CHEMICAL & PHYSICAL PROPERTIES

Appearance	clear to slightly turbid
Active solids	20%
Total solids	20%
Brookfield Viscosity cps	< 3,000 (Brookfield RVT, spindle 4, 20 rpm, 25°C)
Specific gravity	ca.1.05
Solvent	water

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

APPLICATIONS

- High quality, low VOC latex paints of all sheen levels
- High-gloss interior and exterior latex paints
- Semi-gloss interior and exterior latex paints
- Waterborne alkyd paints
- Other latex systems requiring high film build and improved flow and leveling
- Inks
- Adhesives
- Textile coatings

KEY PROPERTIES

- APEO and VOC-free
- Superior spatter resistance
- Good color acceptance
- Bio-stable
- pH independent
- Pourable liquid for easy addition
- Excellent applied hide
- Good stain resistance
- Does not detract from gloss or wet adhesion

INCORPORATION

RHEOLATE HX 6025 can be used as supplied or, if necessary, further diluted with water. Addition after the binder during the let down is recommended. It should be added under good mixing conditions to ensure complete incorporation into the formulation.

RHEOLATE HX 6025 additive can be combined with other associative rheological additives, clay based thickeners or cellulosic thickeners for higher package viscosity and improved sag control.

RHEOLATE HX 6025 is an associative rheological additive and is generally more efficient as the particle size of the latex decreases. This is due to the increased surface area of such latexes. It is important to assess the effectiveness of **RHEOLATE HX 6025** in the complete system, where performance can also be affected by other raw ingredients.

LEVELS OF USE

Typical use levels of **RHEOLATE HX 6025** are 0.5% to 3.5% (thickener as supplied) on total system weight.

Please run a ladder test to determine the most suitable dosage before use.

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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 6025 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 6025 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.

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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