

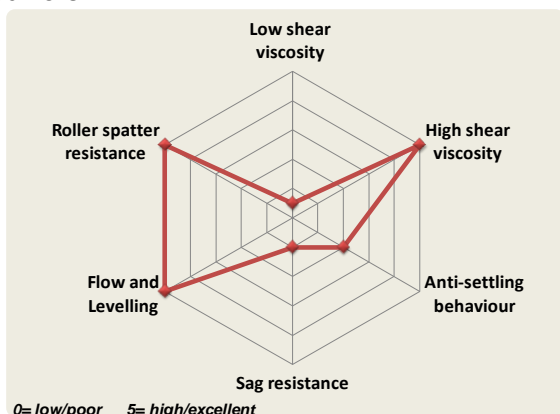
Associative Thickener for High Shear-Rate Viscosity Build in Water-Borne Systems

GENERAL INFORMATION

RHEOLATE[®] 212 is a 20% solids, VOC-free polyether polyurethane associative flow 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 levelling are required.

RHEOLATE[®] 212 can be used alone with small particle size latex systems or in combination with a co-thickener such as RHEOLATE[®] 655 or RHEOLATE[®] 666 if higher mid-shear (package) viscosity is required.

RHEOLATE[®] 212 has shown more efficient high-shear viscosity development and improved flow and levelling in the newer VOC-free gloss and semi-gloss systems than most other viscosity modifiers.



PHYSICAL PROPERTIES

Appearance	Translucent Off-White to White Liquid
Active solids	20%
Total solids	20%
Brookfield Viscosity cps	< 6,000 (Brookfield RVT, spindle 4, 20 rpm, 25°C)
Specific Gravity	1.03
Solvent	water

APPLICATIONS

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

KEY PROPERTIES

- VOC-free
- Superior spatter resistance
- Good colour acceptance
- Bio-stable
- pH independent
- Pourable liquid for easy addition
- Compatible with other thickeners
- Does not detract from gloss or wet adhesion

INCORPORATION

RHEOLATE[®] 212 can be used as supplied or, if necessary, further diluted with water. Addition can take place at any time during the formulation manufacturing process but incorporation into the millbase before letdown is recommended.

RHEOLATE[®] 212 additive can be combined with other associative rheological additives, clay based thickeners or cellulosic thickeners for higher package viscosity and improved sag control.

RHEOLATE[®] 212 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[®] 212 in the complete system, while performance is also affected by other raw ingredients.

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LEVELS OF USE

Typical use levels of RHEOLATE® 212 are 0.5% to 5% (thickener solids weight) on total system weight.

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS can be found on the company website at www.elementis-specialties.com.

STORAGE RECOMMENDATIONS

RHEOLATE® 212 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® 212 has a shelf life of 2 (two) years 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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