

RHEOLATE® 135

APE free Newtonian HASE thickener for latex paints and other WB systems

GENERAL INFORMATION

RHEOLATE 135 is an APE-free hydrophobically modified alkali swellable acrylic thickener that demonstrates both chain entanglement and associative thickening mechanisms with an excellent balance of application properties.

RHEOLATE 135 is very Newtonian and provides mainly high shear rate viscosity. In most cases **RHEOLATE 135** should be combined with a HASE KU builder for a balanced set of performance and application properties.

CHEMICAL & PHYSICAL PROPERTIES

Composition	Acrylic emulsion in water
Color / Form	milky white liquid
Density	1.04 g/cm ³
pH	3-4
Brookfield Viscosity cps	< 20 (Brookfield LVT, spindle 1, 60 rpm, 22°C)
Non-Volatile Content	25%
Volatile	water

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

APPLICATIONS

Water-borne Architectural Coatings

- Interior/exterior deco coatings of all sheen levels
- High PVC architectural systems
- Low odor and low VOC coatings
- Contractor or trade paint systems
- Water reducible and latex systems

Industrial Coatings

- Industrial maintenance coatings

KEY PROPERTIES

- Efficient high shear viscosity build
- Excellent storage stability
- Alkyd-like flow and leveling
- Improved moisture resistance over other acrylic and cellulosic thickeners
- Excellent brush drag
- Improved applied hiding
- Superior spatter resistance

INCORPORATION

Proper Addition Techniques

RHEOLATE 135 can be added slowly with effective mixing without pre-dilution. Under low speed mixing conditions, pre-dilution with water is recommended to avoid pH shock. Addition is normally made during the let-down, but a portion can also be incorporated into the millbase if desired. **RHEOLATE 135** can also be post-added to the batch to adjust viscosity for quality control.

Proper pH Adjustment

RHEOLATE 135 is an alkali swellable thickener and should be used in systems with a pH of at least 8.0 for complete activation. In vinyl acrylic systems where pH has a tendency to drift downward, the use of calcium carbonate or wollastonite extenders may help maintain pH on aging

Viscosity Equilibration

As in the case with all associative thickeners **RHEOLATE 135** requires time to activate fully after addition. The equilibration time will vary depending on formulation, but in most cases will be reached after 16 hours.

LEVELS OF USE

The typical level of use in paints or inks for **RHEOLATE 135** is 0.3% to 1.0% (as delivered) by weight. Levels up to 9% can be used in adhesives and sealants.

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

Store above 5 °C (40 °F) and below 40 °C (104 °F) In the event of accidental freezing, thaw gently, spread between glass slides and examine for granules. If found, do not use.

SHELF LIFE

RHEOLATE 135 has a shelf life of (two) years from date of manufacture.

QUALITY ASSURANCE

Quality system at the site manufacturing this product complies with and is certified to ISO 9001 quality standards.

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