

Hydrophobically Modified Alkali-Swellable Emulsion (HASE) Rheological Additive

GENERAL INFORMATION

RHEOLATE® 175 rheological additive is a cost effective alkali swellable thickener in an easy-to-use emulsion form designed to provide excellent mid- to high-shear viscosity build. In particular it provides excellent film build, levelling and resistance to roller spatter in interior matt and satin finishes.

PHYSICAL PROPERTIES

Composition	acrylic emulsion in water
Appearance	milky white liquid
Non-volatile content	30 %
Specific gravity	ca. 1.05
Viscosity	≤20 mPa·s (Brookfield, 25°C, 100rpm)
Solvent	water
pH value	ca. 2.5

APPLICATIONS

- Interior matt and satin finishes
- Exterior matt finishes
- Decorative latex paints
- Waterborne inks
- Waterborne adhesives and sealants

KEY PROPERTIES

- Provides mid- and high-shear viscosity build
- Provides excellent film build and levelling
- Reduces spattering during roller application
- Cost effective against typical cellulosics
- Is APEO (alkyl phenol ethoxylate) free and solvent free
- Has low viscosity and is easy to incorporate
- Gives excellent in-can stability

INCORPORATION

- RHEOLATE® 175 can be used alone or together with other rheological additives to achieve ideal performance properties.
- RHEOLATE® 175 is an alkali swellable thickener and requires proper pH adjustment with an alkali (like ammonium hydroxide or amino methyl propanol) for complete activation. In a typical latex paint, a pH of 8 - 9 is usually recommended.
- Addition is normally made in the let-down or towards the end of the formulation process. At this stage RHEOLATE® 175 can be added slowly to the formulation under good mixing conditions without dilution. Under slow speed mixing conditions, dilution with water is recommended to ensure efficient activation of the additive and to avoid shock (RHEOLATE® 175: water ratio 1:1 to 1:5 by weight).

LEVELS OF USE

- The typical levels of use for RHEOLATE® 175 are 0.5 % to 2.0 % (as delivered) by weight in paints or inks. Higher dosages might be required in adhesives and sealants.
- It is advised to run a ladder test to determine the most suitable dosage before use.

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® 175 should be kept above 4°C (40°F) due to its water content. In the event of accidental freezing, thaw gently, spread a portion between clean glass slides and examine for granules. If found, do not use.

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PACKAGING

Net Weight: 200kg / 50 kg

SHELF LIFE

RHEOLATE® 175 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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