

Hydrophobic Alkali-Swellable Emulsion (HASE) Rheological Modifier

GENERAL INFORMATION

RHEOLATE[®] 150 rheological additive is a cost effective and versatile alkali swellable thickener in an easy to use emulsion form designed to provide high low shear viscosity build. It's very cost effective in medium to high PVC formulations.

RHEOLATE[®] 150 can be used solely or in combination with other rheology modifier, e.g. HEC, PU thickener to achieve desired rheology performance in paint, such as good spatter resistance, good anti-sag, leveling and anti-syneresis, good colour rub up.

PHYSICAL PROPERTIES

Composition	Acrylic emulsion in water
Appearance	Milky white liquid
Non-volatile content	28.5 - 31.5%
Solvent	water
Specific gravity	Ca. 1.05
Dynamic viscosity	≤ 20 cP (25°C)
pH value	Ca. 2.3

APPLICATIONS

- Latex paint including gloss, semi-gloss and mat
- Waterborne adhesives
- Waterborne inks
- Waterborne sealants
- Waterborne industrial coatings

KEY PROPERTIES

- Provides high viscosity in low shear rate
- Demonstrates excellent colour acceptance
- Show similar dilution behavior to HEC in most paint formulations
- Provides excellent sag and anti-settling resistance
- Reduces syneresis

- Reduces spattering during roller application
- APEO (alkyl phenol ethoxylate) free and solvent free.
- Low viscosity and easy incorporation

INCORPORATION

- RHEOLATE[®] 150 can be cooperated with other rheological additive to achieve desirable rheological properties.
- RHEOLATE[®] 150 is an alkali swellable thickener and requires proper pH adjustment with alkali (like ammonia or amino methyl propanol) for complete activation. In a typical latex paint, a pH of at least 8.5 is recommended.
- Addition at this stage requires good mixing in the vessel. RHEOLATE[®] 150 can be added to the paint without dilution by adding it slowly during mixing. Under slow speed mixing conditions, dilution with water (Rheolate[®] 150/water=1/1 to 1/5, weight ratio) is recommended to ensure efficient activation of additive.

LEVELS OF USE

- The typical levels of use for Rheolate[®] 150 are 0.1% to 2.0% (as delivered) by weight in paints or inks, and higher dosage required in adhesives and sealants.
- Please run ladder test to determine the most suitable dosage before use.

HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

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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STORAGE RECOMMENDATIONS

- RHEOLATE[®] 150 should be kept above 4°C (40°F).
- In the event of accidental freezing, thaw gently, spread portion between glass slides and examine for granules. If found, do not use.

PACKAGING

Net Weight: 200 kg / 50 kg

SHELF LIFE

RHEOLATE[®] 150 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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