

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 excellent low shear viscosity build. It is very cost effective in medium to high PVC formulations.

RHEOLATE® 150 can be used alone or in combination with other rheological modifiers, e.g. HEC or PU thickeners to achieve the desired rheological performance. It imparts good sag and spatter resistance along with improved leveling and syneresis control and good color acceptance.

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
Viscosity	≤20 mPa.s (Brookfield, 25°C, 100rpm)
pH value	ca. 2.3

APPLICATIONS

- All latex paints: gloss, semi-gloss and matt
- Waterborne adhesives
- Waterborne inks
- Waterborne sealants

KEY PROPERTIES

The RHEOLATE® 150 additive

- Provides high viscosity at low shear rates
- Provides excellent sag and anti-settling resistance
- Reduces syneresis
- Reduces spattering during roller application
- Demonstrates excellent color acceptance
- Shows similar dilution behavior to HEC in most paint formulations
- Is APEO (alkyl phenol ethoxylate) free and solvent free
- Has low viscosity and is easy to incorporate

INCORPORATION

- RHEOLATE® 150 can be used together with other rheological additives to achieve the desired performance properties.
- RHEOLATE® 150 is an alkali swellable thickener and requires proper pH adjustment with an alkali (like ammonia or amino methyl propanol) for complete activation. In a typical latex paint, a pH of 9 is usually recommended.
- Addition is typically made in the let-down. At this stage RHEOLATE® 150 can be added slowly to the formulation under good mixing without dilution. Under slow speed mixing conditions, dilution with water (RHEOLATE® 150: water ratio 1 : 1 to 1 : 5 by weight) is recommended to ensure efficient activation of the additive and avoid shock.

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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. Higher dosages might be required in adhesives and sealants.
- Please run a ladder test to determine the most suitable dosage before use.

HANDLING AND SAFETY

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

STORAGE RECOMMENDATIONS

- RHEOLATE® 150 should be kept above 4°C (40°F).
- In the event of accidental freezing, thaw gently, spread a portion between two 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.

USA Head Office

Elementis Specialties, Inc.
329 Wyckoffs Mill Road
Hightstown, NJ 08520
USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne
Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Malaysia

Elementis Specialties, Inc.
Lot PT 55, 64 & 65
Jalan Hulu Tinggi 26/6
Seksyen 26
40400 Shah Alam
Selangor Darul Ehsan
Malaysia
Tel.: +60 3 5191 9979
Fax: +60 3 5191 6811

China

Deuchem (Shanghai) ChemicalCo., Ltd.
99, Liyang Road
Songjiang Industrial Zone
Shanghai
China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563