

## RHEOLATE<sup>®</sup> 150

### 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.

#### CHEMICAL & 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	2.0 - 3.5

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

#### APPLICATIONS

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

#### KEY PROPERTIES

- 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 8 - 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.

#### 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.

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### 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

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.

### SHELF LIFE

RHEOLATE 150 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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V01 Jan. 2019

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