

RHEOLATE® 150S

Hydrophobic Alkali-Swellable Emulsion (HASE) Rheological Modifier

GENERAL INFORMATION

RHEOLATE 150S 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 150S 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	ca. 2.3

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 150S can be used together with other rheological additives to achieve the desired performance properties.

RHEOLATE 150S 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 150S** can be added slowly to the formulation under good mixing without dilution. Under slow speed mixing conditions, dilution with water (**RHEOLATE 150S** : 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 150S** 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 150S 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 150S has a shelf life of 2 (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.

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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