

RHEOLATE® 175S

Hydrophobically Modified Alkali-Swellable Emulsion (HASE) Rheological Additive

GENERAL INFORMATION

RHEOLATE 175S 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.

CHEMICAL & 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

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

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 cellulose
- Is APEO (alkyl phenol ethoxylate) free and solvent free
- Has low viscosity and is easy to incorporate
- Gives excellent in-can stability

INCORPORATION

RHEOLATE 175S can be used alone or together with other rheological additives to achieve ideal performance properties.

RHEOLATE 175S 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 175S** 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 175S**: water ratio 1:1 to 1:5 by weight).

LEVELS OF USE

The typical levels of use for **RHEOLATE 175S** 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

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 175S 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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SHELF LIFE

RHEOLATE 175S 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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