

RHEOLATE[®] 255

Associative Thickener

Polyurethane-based Associative Thickeners for Latex Paints

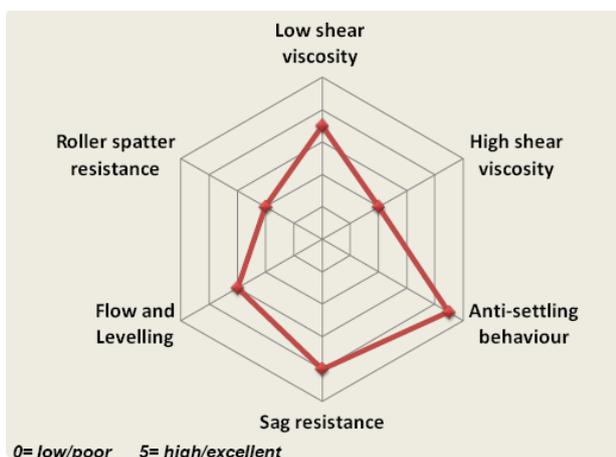
GENERAL INFORMATION

RHEOLATE 255 is a 25 % solution designed for use in conventional latex systems.

RHEOLATE 255 is an additive with a high thickening effect in the medium-shear range (Stormer viscosity, Krebs Units).

Latex paints with various high-shear viscosities (ICI viscosity) can be formulated by combining

RHEOLATE 255 with either RHEOLATE 278 or RHEOLATE 212.



CHEMICAL & PHYSICAL PROPERTIES

Appearance	translucent Off-White to White Liquid
Active solids	25%
Total Solids	25%
Brookfield Viscosity cps	< 6,000 (Brookfield RVT, spindle 4, 20 rpm, 25°C)
Specific Gravity	1.03
Solvent	water and butyldiglycol

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

APPLICATIONS

- Gloss latex paints
- Satin-gloss latex paints
- Latex paints for interior and exterior applications, based on pure acrylic or copolymer binders

KEY PROPERTIES

RHEOLATE 255 rheological additive

excellent rheology

- improves medium-shear range viscosity
- enhances film build
- highly efficient

excellent paint performance

- improves flow and leveling
- reduces spattering during roller application
- enzyme resistant
- develops pH-independent rheology
- easily incorporated

compatibility

- compatible with BENTONE EW, BENTONE LT and other rheological additives
- allows broad formulating flexibility

INCORPORATION

RHEOLATE 255 can be used as supplied or – in special cases – diluted. Addition can take place at any time during the paint manufacturing process. Addition before letdown of the mill-base is strongly recommended.

The combined use of **RHEOLATE 255** and either RHEOLATE 278 or RHEOLATE 212 allows the high-shear viscosity (drag-resistance) and low/medium-shear viscosity (flow and levelling) of a paint to be precisely adjusted. This is achieved by the following method, using the two additives in varying proportions.

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Two paints are prepared independently to the desired medium-shear viscosity using, respectively, **RHEOLATE 255** and RHEOLATE 278. The two paints are then mixed in varying proportions until the resultant blend has the required high-shear viscosity. The amounts of **RHEOLATE 255** and RHEOLATE 278 needed to achieve a given high-shear viscosity can thus be accurately determined.

RHEOLATE additives can be combined with traditional additives such as BENTONE LT, BENTONE EW, cellulosic or acrylic thickeners.

The thickening efficiency of **RHEOLATE 255** may be influenced by solvents, binders or surfactants. The rheological properties of these associative thickeners are developed by interaction with the other raw materials in a given system.

It is therefore important to assess the effectiveness of **RHEOLATE 255** in the complete paint system.

LEVELS OF USE

The typical use quantities of **RHEOLATE 255** are 0.4 to 2.0 % by weight of the paint. To achieve optimum properties, the system's surfactant blend may need modification.

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

Stored in a cool, dry location and above 4 °C. (40 °F)

In the event of accidental freezing, thaw gently, spread a portion between clean glass slides and examine for granules. If found, do not use.

SHELF LIFE

RHEOLATE 255 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.

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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V01 Aug. 2018

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