

RHEOLATE[®] 244

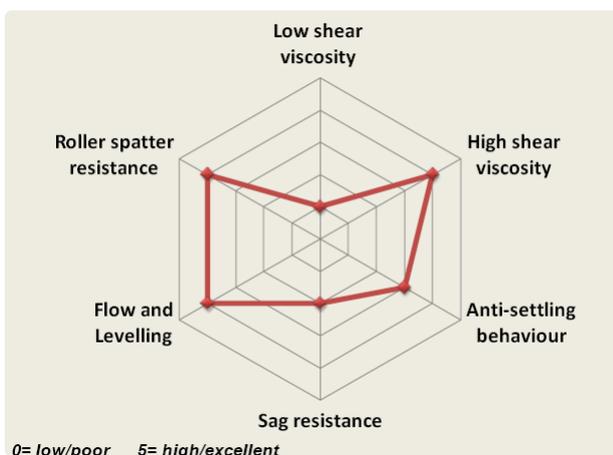
Associative Thickener for Latex Paints and Other Water-Borne Systems

GENERAL INFORMATION

RHEOLATE 244 is a 25 % solids dispersion of a polyether urea polyurethane-based associative rheology modifier designed for use in water-borne paints, inks and adhesives containing small-particle-sized latexes and high-volume-solids systems.

RHEOLATE 244 provides efficient thickening in the high-shear range (ICI viscosity) and improves mid-shear viscosity without the need for a secondary thickener.

Gloss and semi-gloss latex paints benefit from the more Newtonian flow obtained with **RHEOLATE 244**. Tint-base pigmented systems benefit from the improved colour acceptance and paint stability achieved with **RHEOLATE 244**.



CHEMICAL & PHYSICAL PROPERTIES

Appearance	Opaque 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
- Water-reducible paints
- Inks
- Adhesives

KEY PROPERTIES

Rheological properties

- gives ideal viscosity at high-shear rates
- enhances film build
- provides good brush drag
- improves mid-shear-rate viscosity
- does not require the use of a secondary thickener

Paint performance

- gives effective flow and leveling control
- reduces spattering during roller application
- good colour acceptance
- enzyme resistant
- pH-independent
- gives alkyd-like flow to water-borne gloss paints
- easily incorporated

Compatibility

- compatible with other rheological additives
- allows broad formulating flexibility

INCORPORATION

RHEOLATE 244 can be used as supplied or, if required, diluted. Addition can take place at any time during the manufacturing process. Addition before letdown of the mill-base is strongly recommended.

RHEOLATE 244 additives can be used together with other rheological additives such as BENTONE EW, BENTONE LT, cellulosic or acrylic thickeners.

The rheological properties of associative thickeners are developed by interaction with the other ingredients in a given system. The thickening efficiency of **RHEOLATE 244** may be influenced by solvents, binders or surfactants.

continued...

RHEOLATE[®] 244

The performance of **RHEOLATE 244** in a small-particle-size latex system is greatly enhanced by increasing the available surface area of the pigments and extenders. Modification of the system's surfactant blend may be beneficial.

It is important to assess the effectiveness of **RHEOLATE 244** in the complete paint system.

LEVELS OF USE

The typical levels of use for **RHEOLATE 244** are 0.4 to 3.0% by weight of the paint.

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 244 should be kept above 4°C (40°F).

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

SHELF LIFE

RHEOLATE 244 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.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Elementis Specialties, Inc.

V01 Aug. 2018

North America

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, 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

Asia

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