RHEOLATE® 210

ELEMENTIS
SPECIALTIES

VOC-free Polyether Urea Polyurethane Associative Thickener for Latex Paints and Other Waterborne Systems

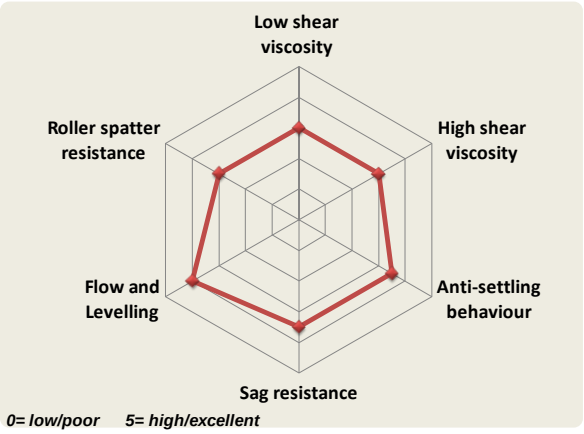
GENERAL INFORMATION

RHEOLATE® 210 rheological additive is a VOC-free urethane associative thickener for use in low-VOC and VOC-free formulations.

RHEOLATE® 210 is a 25 % actives dispersion designed for use in paints containing small-particle-sized latexes and high-volume-solids systems.

RHEOLATE® 210 is an additive with superior thickening efficiency in the high shear range (ICI viscosity).

Latex paints with various high-shear-rate viscosities can be formulated by combining with other Elementis Specialties' rheological additives.



PHYSICAL PROPERTIES

Appearance	Cloudy Off-White to White Liquid
Active Solids	25%
Total Solids	33%
Brookfield Viscosity cps	< 9,000 (Brookfield RVT, spindle 4, 20 rpm, 25°C)
Specific Gravity	1.06
Solvent	Water

APPLICATIONS

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

KEY PROPERTIES

VOC-free
low odor

excellent rheology
- superior high-shear viscosity
- enhances film build
- provides excellent brush drag

excellent paint performance
- imparts superior flow and leveling
- reduces spattering during roller application
- good color acceptance
- enzyme resistant
- gives alkyd-like appearance in water-borne gloss paints
- easily incorporated

compatibility
- compatible with clay, polymeric and cellulosic thickeners

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, 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.

INCORPORATION

RHEOLATE® 210 can be used as supplied or, if required, diluted. Addition can take place at any time during the paint manufacturing process. Addition before letdown of the mill-base is strongly recommended.

This product can be combined with traditional additives such as BENTONE® EW, BENTONE® LT, cellulosics or acrylic thickeners.

The rheological properties of associative thickeners are developed by interaction with the other raw materials in a given system. The thickening efficiency of RHEOLATE® 210 may be influenced by solvents, binders or surfactants.

It is important to assess the effectiveness of RHEOLATE® 210 in the complete paint system.

LEVELS OF USE

Typical use levels of RHEOLATE® 210 are 0.4% to 6.0% by weight of the paint. To achieve optimum properties, the system's surfactant blend may need modification.

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS can be found on the company website at www.elementis-specialties.com.

STORAGE RECOMMENDATIONS

RHEOLATE® 210 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® 210 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, 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.

USA Head Office
Elementis Specialties, Inc.
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

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