

RHEOLATE® RX 04

Hydrophobically Modified Alkali-Swellable Emulsion (HASE) Rheological Modifier

GENERAL INFORMATION

RHEOLATE® RX 04 is an acrylic thickener, of medium viscosity, designed to replace cellulosic thickeners with technical advantages. Hydrophobically modified alkali swellable thickener was developed with the highest technology for waterborne systems.

RHEOLATE® RX 04 is an efficient thickener for systems formulated with acrylic emulsions, styrene acrylics, acrylic vinyl, vinyl maleates and VeoVa.

PHYSICAL PROPERTIES

Appearance	Milkey white liquid
Non-volatile content (%)	24 - 26
Volatile Material (%)	Water 74 a 76
Specific Gravity	1.03 to 1.07 (water=1)
Solubility in water	Unlimited
Steam density (Air = 1)	<1 ref. water
Boiling Point	212° F /100°C
Viscosity (Cps) max	15
Evaporation rate	<1 ref. water
pH	3,0- 4,5

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

APPLICATIONS

- Waterborne Decorative Coatings
- Finishes matte, semi-gloss and gloss
- Preferably for Systems: Acrylics, Styrene Acrylic systems, Vinyl Acrylics, Acrylic Maleates and VeoVa
- Waterborne Adhesives and sealants
- Waterborne inks

KEY PROPERTIES

Superior performance and appearance when compared to cellulosic modifiers.

Provides medium viscosity thickening.

Newtonian behavior giving high transfer during application.

Easy to handle.

High shelf life stability.

High resistance to microbial spoilage.

INCORPORATION

RHEOLATE® RX 04 it is an expandable alkali thickener and requires that the pH be adjusted to achieve maximum performance and efficiency. The paints must be formulated with a pH above 7.0.

It is recommended to dilute **RHEOLATE® RX 04** with water (3 H₂O: 1 RHEOLATE® - maximum ratio) prior to addition, always with stirring.

No pre-neutralization of **RHEOLATE® RX 04** is required. Adjustment with ammonia or amino methyl propanol for complete activation must be done before addition of **RHEOLATE® RX 04**.

Due to its high mechanical strength, a part of the product can be added in the dispersion phase, always with a pH above 7.0.

Addition at Letdown is the typical procedure, maintaining adequate stirring and pH should be above 7.0.

LEVELS OF USE

We recommend the use of 1,4% to 1,8 % by weight. Please run a ladder test to determine the most suitable dosage before use.

Dosage is also changed according to the type of finish to be done, by percentage of system solids and final PVC.

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® RX 04 should be kept above 4°C (40°F). In the event of accidental freezing, thaw gently, spread portion between glass slides and examine for granules. If found, Do Not Use.

SHELF LIFE

RHEOLATE® RX 04 has a shelf life of 12 (twelve) months from date of manufacture.

RHEOLATE[®] RX 04

Hydrophobically Modified Alkali-Swellable Emulsion (HASE) Rheological Modifier

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.

Rev. October 2020

América do Norte

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, EUA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europa

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Colônia, Alemanha
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Ásia

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