

RHEOLATE® RX 430

Hydrophobically Modified Alkali-Swellable Emulsion (HASE) Rheological Modifier

GENERAL INFORMATION

RHEOLATE® RX 430 is an acrylic thickener that combines high thickening in low shear rate range with great results also in high shear rate. Due to its unique rheological behavior, it can be used alone in the formulation or in combination with other rheological modifiers.

RHEOLATE® RX 430 is designed to replace cellulosic thickeners with technical advantages. Hydrophobically modified alkali swellable thickener is developed with the highest technology for waterborne systems.

RHEOLATE® RX 430 is an efficient thickener for systems formulated with acrylic emulsions, styrene acrylics, acrylic vinyl, vinyl maleates and VeoVa, when is used only one thickener.

PHYSICAL PROPERTIES

Appearance	Milky white emulsion
Non-volatile content (%)	29 - 31
Volatile Material (%)	Water 69 a 71
Specific Gravity	1.03 - 1.07 (water=1)
Solubility in water	Unlimited
Steam density (Air = 1)	<1 ref. water
Boiling Point	212° F /100°C
Viscosity (Cps) max	50
Evaporation rate	<1 ref. water
pH	2,5 – 4,0

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 high thickening capacity.

Provides Shear thinning flow behavior, develops

package viscosity efficiently.

Easy to handle.

High shelf life stability.

High resistance to microbial spoilage.

INCORPORATION

RHEOLATE® RX 430 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 430** with water (3 H₂O: 1 RHEOLATE® - maximum ratio) prior to addition, always with stirring.

No pre-neutralization of **RHEOLATE® RX 430** is required.

Adjustment with ammonia or amino methyl propanol for complete activation must be done before addition of **RHEOLATE® RX 430**.

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 0,8% to 1,2 % 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 430 should be kept above 4°C

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(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 430 has a shelf life of 12 (twelve) months 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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