ELEMENTIS

A global specialty chemicals company

Enhanced Performance Through Applied Innovation

RHEOLATE® 125

Acrylic Rheological Additive for Waterborne Systems

GENERAL INFORMATION

RHEOLATE 125 rheological additive is an alkali swellable emulsion based on an acrylic backbone.

RHEOLATE 125 rheological additive is cost effective with high thickening efficiency in the low to medium-shear-rate range. Its high shear properties provide excellent atomization.

CHEMICAL & PHYSICAL PROPERTIES

Composition	proprietary acrylic dispersion in water
Color	milky white
Form	free-flowing emulsion
Viscosity	Brookfield (50 rpm) max. 20 mPa.s
Non-volatile content	25%
Density	1.01 g/cm^3
pH-value	3.0 - 4.0

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

APPLICATIONS

A wide range of waterborne paints based on typical wood and industrial systems including:

- Industrial Water Reducible Alkyds
- Industrial Acrylic
- Various Wood Coatings
- Waterborne metallics

KEY PROPERTIES

Excellent flow control

- high viscosity at low-shear-rate
- provides good anti-settling properties

Excellent film properties

- retains higher gloss levels
- provides excellent atomization
- good impact resistance

Incorporation

- easily incorporated
- reduces paint preparation time

Compatibility

- compatible with all common classes of thickeners

INCORPORATION

For wood and non metallic industrial coatings, **RHEOLATE 125** additive offers flexible incorporation in your paint formulation. It can be added as the last component in the letdown stage in coating production. It can be incorporated directly into the paint system without dilution or pre-neutralisation. **RHEOLATE 125** additive should be thoroughly mixed into the product to ensure a homogeneous system. **RHEOLATE 125** should be added prior to an increase in pH. The system must have a final pH of 8.0. Addition of a base like ammonia or 2-amino methyl propanol may be necessary.

In waterborne metallic coatings, **RHEOLATE 125** should be diluted to 10% and pre-neutralized to a ph of 5.5 - 6.0.

It may be necessary to increase mill-base solids in paints to achieve optimum pigment dispersion when no thickener is present in the mill-base.

USE WITH OTHER THICKENERS

RHEOLATE 125 additive can be combined with other thickeners:

Clay-based Thickeners:

RHEOLATE 125 additive can be used with BENTONE EW or BENTONE HD rheological additives in industrial water- reducible coatings to provide improved impact resistance and improved moisture resistance.

LEVELS OF USE

The typical levels of use for **RHEOLATE 125** additive are, by weight, 0.6 to 2.0% in paints or inks.

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.

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STORAGE RECOMMENDATIONS

RHEOLATE 125 should be kept above 5°C (40°F). In the event of accidental freezing, thaw gently, spread between glass slides and examine for granules. If found, do not use.

SHELF LIFE

RHEOLATE 125 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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