

## RHEOLATE® 185

### Low to Mid-Shear Acrylic Thickener to Replace Cellulosic Thickener

#### GENERAL INFORMATION

**RHEOLATE 185** rheological additive is a cost effective alkali soluble associative thickener that was specially designed to replace cellulosic thickeners. It can be used in water based coatings either as a primary or as a co-thickener. It offers better applied hide, less spattering, resistance to mud-cracking in thick coatings typically seen in high build coatings while maintaining the in-can feel of paint based on cellulosic thickener.

**RHEOLATE 185** is supplied as low viscosity liquid, it provides ease of addition and incorporation in paint. Its resistance to microbial spoilage enhances long term paint stability without loss in viscosity as seen in cellulosic based paint.

#### PHYSICAL PROPERTIES

Composition	Acrylic emulsion in water
Appearance	Milky white liquid
Active Content	30%
Specific Gravity	Ca. 1.05
Brookfield Viscosity cps	<20 mPa.s (Brookfield LV, Spindle#1, 100RPM, 25°C)
Solvent	Water
pH Value	2-3
Storage Precautions	Protect from freezing

These are typical properties not to be used for specification purposes

#### APPLICATIONS

RHEOLATE 185 has shown excellent performance in:

- Waterborne finishes based on different latex systems.
- Adhesives and sealants
- Tile grouts
- Plasters

#### KEY PROPERTIES

- Provides low to mid-shear viscosity
- Shear thinning
- Improves applied hide
- Excellent roller and spray uniformity
- Cost effective alternative to cellulosic thickener
- Solvent and APEO free
- Easy to incorporate
- Prevents settling
- Spatter resistance
- Mud crack resistance in thick films
- Retains viscosity even after paint dilution
- Prevents hard settling upon dilution
- Stable viscosity over time
- Resists microbial spoilage

#### INCORPORATION

**RHEOLATE 185** can be used alone or together with other rheological additives to achieve ideal performance properties.

**RHEOLATE 185** is an alkali swellable thickener and requires proper pH adjustment with an alkali (like ammonium hydroxide or amino methyl propanol) for complete activation. In a typical latex paint, a pH of 9.0 – 9.5 is usually recommended.

The addition can be made at any point in the process, but is normally made in the let-down or towards the end of the formulation process. At this stage **RHEOLATE 185** can be added slowly to the formulation under good mixing conditions without dilution. Under slow speed mixing conditions, dilution with water is recommended to ensure efficient activation of the additive and to avoid latex shock. (**RHEOLATE 185**: water ratio 1:1 to 1:5 by weight).

#### LEVELS OF USE

Typical use levels of **RHEOLATE 185** are 0.5% to 2% as delivered on total system weight.

Please run a ladder test to determine the most suitable dosage before use.

## RHEOLATE<sup>®</sup> 185

### 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 185 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 185 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.

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