

RHEOLATE[®] 2000

Anti-settling additive for water-borne systems

GENERAL INFORMATION

RHEOLATE 2000 is a highly efficient, pourable liquid anti-settling additive for use in water-borne systems, including water-reducible alkyd, acrylic, epoxy and urethane resins systems.

RHEOLATE 2000 additive may be used in both industrial and consumer sales applications to prevent hard-packed settling. **RHEOLATE 2000** provides superior pigment suspension at lower active additive levels than clay, cellulosic or conventional polymeric additives. Anti-settling properties are obtained with minimal mid-shear-range viscosity increase. Unlike conventional polymeric types, **RHEOLATE 2000** performs independently of pH and is not sensitive to pH variations of water-reducible systems. However, care should be taken in systems of pH 6.0 or less. Because **RHEOLATE 2000** does not build viscosity in the mid-to upper-shear-rate range, it is ideal for spray-applied systems.

CHEMICAL & PHYSICAL PROPERTIES

Composition	olefinic copolymer suspension
Color	off-white
Form	liquid
Density	0.995 g / cm ³
Viscosity	max. 20 - 500 mPa·s Brookfield LVT, Spindle 3, 50 rpm
Carrier solvent	water
Solids content	24 %

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

APPLICATIONS

- Inks
- Paper coatings
- Pigment slurries
- Water-reducible coatings

KEY PROPERTIES

Rheology

- outstanding anti-settling properties
- minimal mid-shear-range viscosity influence
- reduced syneresis
- broad compatibility with other paint components

Paint performance

- spray properties enhanced
- leveling properties maintained
- unimpaired gloss

Easy to use

- pourable, liquid suspension
- fast dispersion
- no activation temperature required
- VOC-free

INCORPORATION

Best results are obtained when **RHEOLATE 2000** is incorporated during the pigment dispersion stage. In applications where gloss is less critical, it can be added in the letdown stage or to the diluted system.

RHEOLATE 2000 is compatible with most commonly used rheological additives for water-borne systems.

Where a higher package-viscosity is desired, **RHEOLATE 2000** may be used in combination with other RHEOX rheological additives designed for viscosity increase, such as RHEOLATE 1 and RHEOLATE 101. In these cases, sufficient RHEOLATE 1 (or 101) should be used to reach the required viscosity. **RHEOLATE 2000** is then added until the desired degree of anti-settling control is obtained.

The performance of rheological additives in water-borne applications is often system-dependent. Low pH conditions and resin type can influence the performance of **RHEOLATE 2000**. The best results are obtained if a polar co-solvent is present in the formulation.

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LEVELS OF USE

The optimum level will depend on the system, pigmentation and degree of anti-settling protection required. Typical use levels range from 0.6 to 2.0% (as supplied) based on total weight of the system.

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.

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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