

RHEOLATE[®] 2001

Antisettling Additive for Waterborne Systems

GENERAL INFORMATION

RHEOLATE 2001 is a highly efficient, pourable liquid, antisettling additive for use in water-reducible coatings and inks.

RHEOLATE 2001 provides superior suspension of pigments and at relatively low addition levels, with minimal mid-shear-range viscosity increase.

RHEOLATE 2001 may be used in industrial and consumer paints, and in inks, based on water-reducible resins, such as alkyd, acrylic, epoxy and urethane. **RHEOLATE 2001** requires neither minimum nor maximum activation temperatures and can be post-added, if necessary.

RHEOLATE 2001 should be used in systems with a pH >6.0.

Because **RHEOLATE 2001** 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 / Form | translucent off-white liquid |
| Density | 1.008 g/cm ³ |
| Viscosity | 300 cps Max 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

Paint performance

- spray properties enhanced
- leveling properties maintained
- unimpaired gloss

Easy to use

- pourable, liquid suspension
- fast dispersion
- no activation temperature required
- broad compatibility with other paint components

INCORPORATION

Best results are obtained when **RHEOLATE 2001** 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 2001 is compatible with most commonly used rheological additives for water-borne systems.

Where a higher package-viscosity is desired, **RHEOLATE 2001** may be used in combination with other ELEMENTIS SPECIALTIES rheological additives designed for viscosity increase, such as RHEOLATE 1, RHEOLATE 125 and RHEOLATE 420. In these cases, sufficient RHEOLATE 1 (or 101) should be used to reach the required viscosity.

RHEOLATE 2001 is then added until the desired degree of antisettling 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 2001**. 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 antissettling protection required. Typical use levels range from 0.6 to 2.0% (as delivered) 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.

STORAGE RECOMMENDATIONS

Store in a cool, dry location.

Store above 40 °F (4 °C).

Keep partially used container well sealed to prevent volatile content loss.

SHELF LIFE

RHEOLATE 2001 has a shelf life of 2 (two) years from date of manufacture.

QUALITY ASSURANCE

Quality system at the site manufacturing this product complies with and is certified to ISO 9001 quality 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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