

# RHEOLATE<sup>®</sup> 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 <sup>3</sup>
Viscosity	200 mPa·s 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

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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#### North America

Elementis  
469 Old Trenton Road  
East Windsor  
NJ 08512, USA  
Tel.: +1 609 443 2500  
Fax: +1 609 443 2422

#### Europe

Elementis UK Ltd.  
c/o Elementis GmbH  
Stolberger Strasse 370  
50933 Cologne, Germany  
Tel.: +49 221 2923 2066  
Fax: +49 221 2923 2011

#### Asia

Deuchem (Shanghai) Chemical Co., Ltd.  
99, Lianyang Road  
Songjiang Industrial Zone  
Shanghai, China 201613  
Tel.: +86 21 5774 0348  
Fax: +86 21 5774 3563