

## TECHNICAL DATA SHEET

# RHEOTECH™ 2000

Acrylic associative thickener for water-based systems

## HASE Acrylic Thickener



27% Bio Carbon Content (only for EMEA supply)  
-23% Carbon Footprint Reduction (only for EMEA supply)

### TYPICAL CHARACTERISTICS

Nature	<b>Aqueous dispersion of an acrylic copolymer</b>
Appearance	<b>Low viscous white milky liquid</b>
Solid Content (%)	<b>30</b>
Active Content (%)	<b>30</b>
pH	<b>3</b>
Specific gravity	<b>1.06</b>
Solvent	<b>Water</b>
Total Bio content (%)	<b>27</b>

### DESCRIPTION

Rheotech™ 2000 is an acrylic associative thickener for water-based systems (also called HASE). It imparts a newtonian behaviour and is highly effective in silk and flat emulsion paints. It provides an excellent balance between high and low shear viscosities and an excellent compatibility with most organic and inorganic pigments

### RECOMMENDED ADDITION LEVEL

The exceptional thickening efficiency of Rheotech™ 2000 allows its use at lower addition levels whilst maintaining excellent rheological and application properties. Since Rheotech™ 2000 is an associative thickener, its efficiency will depend on the chemical structure and particle size of the binder, the nature of its protective colloid and the choice of coalescing agents. However, typical use level is in the range 0.3% –1.5% as supplied on the total formulation weight.

### STANDARD PACKAGING

- Other packaging may be available upon request
- 1000L IBC
  - 200L Drum
  - Bulk

### HANDLING & STORAGE

It can be irreversibly altered by frost. It should be protected from the effects of weathering and stored between 5 and 40°C and protected from direct sun exposure. This product can be irreversibly altered by frost. Once opened, packaging should be resealed immediately after use. Film-forming product, surface may dry in contact with air. A slight sedimentation can be visible at the bottom of drums or totes. This phenomenon is normal and has no impact on the use and level of performance as long as the solids content of the product meets the specification. If necessary, filter the product prior to its use. In these conditions, this product should be used within 6 months from delivery.

### MARKETS

#### Composites & Advanced Materials

- Graphic Arts

#### Coatings & Inks

- Architectural Coating
- Industrial Coating
- Textile & Leather Coating

### KEY BENEFITS

#### FORMULATION

- Color acceptance
- Compatibility
- Cost in use



#### STORAGE

- Syneresis resistance
- Antisettling
- In-can appearance
- Viscosity stability



#### APPLICATION

- Dilution resistance
- Spatter resistance
- Tinting resistance



#### FILM PROPERTIES

- Rub out
- Hiding power/Opacity
- Stain resistance



#### SAFER SOLUTIONS

- APEO Free\*
- Heavy Metal Free\*
- LiCl Free\*
- MIT Free\*
- Solvent Free\*

\* Not intentionally added but not specifically measured (not part of product specification)

- Total Bio content (%) **27**

# RHEOTECH™ 2000

## PROCESSING INSTRUCTIONS

Rheotech™ 2000 is supplied as a ready to use product, its low viscosity renders it easy to handle and to disperse. It develops its thickening properties in neutral or alkaline medium. Rheotech™ 2000 can be added to an aqueous formulation as supplied or in a 1:1 blend with water carefully neutralized at a pH of 8.5 before addition. In either case the pH of the formulation should not fall below 8. If necessary, the medium to be thickened can be pre-neutralized to a pH of 9.0 before any addition of Rheotech™ 2000 is made.

## HEALTH AND ENVIRONMENTAL DATA

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

## THICKENING MECHANISM

Associative  
Non Associative  
Self Association



## VISCOSITY CONTRIBUTION

High Shear contribution  
Low Shear contribution  
Mid Shear contribution



## PVC

PVC Low  
PVC Mid  
PVC High



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