

TECHNICAL DATA SHEET

RHEOTECH™ 1800

Acrylic associative thickener for water-based systems

HASE Acrylic Thickener



22% Bio Carbon Content (only for EMEA supply)
-23% Carbon Footprint Reduction (only for EMEA supply)

TYPICAL CHARACTERISTICS

Nature	Aqueous dispersion of an acrylic copolymer
Appearance	Low viscous white milky liquid
Solid Content (%)	30
Active Content (%)	30
pH	3
Specific gravity	1.06
Solvent	Water
Total Bio content (%)	22

DESCRIPTION

Rheotech™ 1800 is an associative thickener providing a Newtonian rheology profile. Compared to similar HASE type thickeners, Rheotech™ 1800 shows a unique visco-elastic balance, with a smooth transition towards flow as more shear is applied. It provides to the paints a liquid to creamy appearance while showing outstanding flow ability. Belonging to a high performing product line, Rheotech™ 1800 meets most advanced requirements: efficiency, optimized rheology profile, ease of use, pigment compatibility, versatility, water resistance. Rheotech™ 1800 offers advantages when surfactants and/or electrolytes are already present or incorporated to the formulation and also contributes to limit viscosity drop at tinting and to stabilize colored formulations at storage.

RECOMMENDED ADDITION LEVEL

Rheotech™ 1800 can be used alone or in combination in medium to low PVC formulations, e.g., satin, semi-gloss and gloss paints, at concentrations between 0.2 and 1.5% (dry on total formulation weight, typically)

STANDARD PACKAGING

Other packaging may be available upon request

- 1000L IBC
- 220L Drum
- Bulk

MARKETS

Coatings & Inks

- Architectural Coating
- Graphic Arts
- Industrial Coating
- Textile & Leather Coating

KEY BENEFITS

FORMULATION

- Color acceptance
- Cost in use
- Compatibility



STORAGE

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



APPLICATION

- Spatter resistance
- Tinting resistance
- Dilution 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 (%) **22**

RHEOTECH™ 1800

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. 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.

PROCESSING INSTRUCTIONS

Rheotech™ 1800 should be added under stirring at the end of formulation, after the binder incorporation. The thickening effect is achieved once the pH of the formulation is brought to 8.5 to 9 using an alkali solution (sodium hydroxide, ammonium hydroxide, amines).

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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