



RHEOTECH™ 4800

Acrylic Associative thickener for Water-based systems

High Brookfield viscosity and flow ability for formulations showing a very low binder content and outstanding behavior towards coloring.

RHEOTECH™ 4800 is an associative acrylic thickener providing a pseudoplastic rheology profile.

RHEOTECH™ 4800 provides your formulations high values viscosities at low shear together with a valuable appearance.

RHEOTECH™ 4800 is part of the RHEOTECH™ x800 new thickener range.

• TYPICAL ANALYSIS

Nature: Aqueous dispersion of an acrylic copolymer

Appearance (20°C): Low viscous white milky liquid

Solids content (%): 30

Solvent: Water

pH (25°C): 3

Specific gravity (20°C): 1.06

• ADVANTAGES

RHEOTECH™ 4800 is:

- 🔥 Outstandingly effective compared to other thickeners available in the market today,
- 🔥 Safe with additions of colorants, limiting viscosity changes and rub-out issues,
- 🔥 Easy to formulate,
- 🔥 Fully compliant with eco-friendly regulations.

RHEOTECH™ 4800 provides to paints:

- 🔥 Outstanding appearance & creaminess to paints,
- 🔥 Remarkable properties to tinting systems,
- 🔥 Great application comfort,
- 🔥 Improved sag/leveling compromise,
- 🔥 Easy finishing touches (touch up),
- 🔥 Good water resistance.

• APPLICATIONS

Outstanding thickening effectiveness

Its unique associative profile allows RHEOTECH™ 4800 to provide a specific rheological behaviour with very high values at low and medium shear rates (Brookfield and Stormer viscosity).

This property is obtained even at very low binder content.

RHEOTECH™ 4800 provides high VOC paints a creamy and structured appearance with a good flow, tool loading and drag during finishing.

With RHEOTECH™ 4800, low cost formulations can reach rheological characteristics usually obtained with more expensive formulations.

High rheological performances can be obtained at attractive cost/performance ratio.

Safe behavior towards coloring

Belonging to a high performing product line, the presence of surfactant and/or rest electrolytes doesn't affect RHEOTECH™ 4800 when colorants are added to tint bases.

RHEOTECH™ 4800 prevents viscosity drop after coloration and improves pigment compatibility. Its efficiency stands up and no separation of pigment by flooding or floating, nor syneresis have been observed.

Ease of use

RHEOTECH™ 4800 is liquid and low viscous.

RHEOTECH™ 4800 can be used alone or in combination with other rheology modifiers

Compliant with eco-friendly regulations

RHEOTECH™ 4800 is :

- APEO (Alkyl Phenol EthOxylate) free,
- Organic solvent free,
- Metallic pollutant free.

Thanks to these different properties, RHEOTECH™ 4800 is highly recommended for use in:

- 🔥 **high PVC formulations** (e.g. matt paints, fillers, thick film coatings, "spackels"),
- 🔥 **high quality matt colored paints**, or any formulation to be colored using current tinting systems.

RHEOTECH™ 4800 can be used alone in formulation showing high PVC, e.g. matt paints, fillers and low cost formulations, at concentration between 0.05 and 0.5% (dry on total formulation weight) typically.

RHEOTECH™ 4800 can also be used in combination with other rheology modifiers such as cellulosic ethers, Newtonian acrylic thickeners and polyurethane thickeners for an easy rheology adjustment of all kinds of water based formulations, e.g. one coat matt paints or silk paints (concentrations to use: 0.01 to 0.3%, dry on total formulation weight).

RHEOTECH™ 4800 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). In thick film coatings, fillers or renderings, it can be used before the fillers incorporation similarly to cellulosic ethers.

• STORAGE

RHEOTECH™ 4800 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.

In these conditions, products should be used within 6 months after delivery.

Film-forming product, surface may dry in contact with air.

• STANDARD PACKAGING

- 220 l plastic drums
- 1000 l containers.

• HEALTH & ENVIRONMENTAL DATA

Please refer to the Material Safety Data Sheet.

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