



## RHEOCOAT™ 35

### Rheology Modifier for Paper Coating

**RHEOCOAT™ 35** is a synthetic rheology modifier allowing a better control of the coating process and an improved paper quality.

**RHEOCOAT™ 35** is a ready to use acidic emulsion of acrylic copolymer. Its composition and structure are designed to set the viscosities at low and high shear rates that conduct the coating colours behaviour and blade loading during coating operations. A fine tune of water retention helps preventing from bleeding or misting while improving solids stability and coating holdout.

#### • TYPICAL ANALYSIS

**Nature:** Acid, Acrylic copolymer in aqueous dispersion

**Appearance (20°C):** Milky White liquid

**Solids content (%):** 31

**pH (20°C):** 3

**Specific gravity (20°C):** 1.06

**Solubility:** Complete in water at pH > 7

#### • ADVANTAGES

**RHEOCOAT™ 35** is a strong thickener at low and high shear rates and a very good water retention aid.

**RHEOCOAT™ 35** improves solids stability in blade coating for precoats and topcoats.

**RHEOCOAT™ 35** can help keeping the blade or metering bar load sufficient for a good control of the profile and coat weight.

**RHEOCOAT™ 35** is also the thickener of choice for board coating where the demand for water retention is very high.

#### • APPLICATIONS

**RHEOCOAT™ 35** swells and thickens under alkaline conditions at or above pH 8.

**RHEOCOAT™ 35** is introduced at the end of the coating colour preparation prior to the final pH adjustment with diluted caustic soda or ammonia.

**RHEOCOAT™ 35** shall be added slowly in the vortex with good agitation.

Usual addition rates: 0.2 - 0.6 p. dry /100 p. dry pigment

Polymer dispersions are sensitive to shearing. High shearing (centrifugal pumps) should therefore be avoided to introduce **RHEOCOAT™35**.

A manual introduction, or by gravity or by volumetric pump, is recommended.

The introduction pipes have to be clean to avoid any contact of **RHEOCOAT™ 35** with remains of alkaline products or electrolytes. All pipes and tanks shall be in stainless steel to avoid corrosion and hence a destruction of the emulsion.

**RHEOCOAT™ 35** is a concentrated dispersion. To prevent the formation of a film due to the drying of the product, it is strongly advised to:

- rinse the pipes,
- avoid prolonged settings to the open air in the circuits, barrels and valves.

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## • STORAGE

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**RHEOCOAT™ 35** 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.

Bulk deliveries should be stored in plastic or stainless steel tanks.

Drums or containers should be closed after use to prevent from air drying and skin forming.

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## • STANDARD PACKAGING

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- 220 litres drums
- 1000 litres containers
- Bulk

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## • HEALTH & ENVIRONMENTAL DATA

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- For safe handling please refer to the Safety Data Sheet.
- For more information about food contact applications, please contact Coatex.

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Website: [www.coatex.com](http://www.coatex.com)

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