



RHEOCOAT™ 93

Thickener and Water Retention Agent for Paper & Board Coating

RHEOCOAT™ is a family of Alkali Swellable Emulsions fitted for all types of coating colors and application devices. **RHEOCOAT™** are robust and stable emulsions, easy to handle with low skinning and foaming tendency and a good resistance to shears. The **RHEOCOAT™** family is VOC free. Produced according to the highest standards of quality, security and environmental aspects in an ISO certified Coatex plant on four continents.

RHEOCOAT™ 93 helps to keep your process under control...

RHEOCOAT™ 93 is a synthetic rheology modifier allowing a better control of the coating process and an improved paper and board qualities.

RHEOCOAT™ 93 is a pre-neutralized emulsion, ready to use and easy to mix into the coating colors.

RHEOCOAT™ 93 provides good water retention with an outstanding thickening effect.

• TYPICAL ANALYSIS

Nature: Acrylic copolymer in aqueous dispersion

Appearance (20°C): white Liquid

Solids content (%): 30

pH (20°C): 5

Specific gravity (20°C): 1.06

Compatibility: Soluble in water at pH > 7

• ADVANTAGES

Semi Neutralization

- **RHEOCOAT™ 93** is a semi neutralized emulsion.
- **RHEOCOAT™ 93 reduces** the risk of **pH shocks and agglomerates formation** when mixed into the coating color.
- The time needed for thickening is reduced. **RHEOCOAT™ 93** can fit to all types of coating kitchens with a **short swelling time**.
- The **addition of alkali** for pH control can be **reduced**.

Improved runnability - Lower blade pressure

- Coating colors containing **RHEOCOAT™ 93** have a pronounced shear thinning behaviour
- Viscosities under high shear rates are lower than with other synthetic thickeners
- Allow to run at higher solids

Cost performance

- **RHEOCOAT™ 93** is a highly efficient thickener that brings high Brookfield viscosity with very low addition levels.

• APPLICATIONS

Precoats

RHEOCOAT™ 93 is a powerful associative thickener that can easily thicken precoats made of coarse pigments and at relatively low solids.

Film Press Coating - Reduced Misting

RHEOCOAT™ 93 does not provide Water Retention in excess and the elasticity levels remain low for this application thus reducing the risks of misting.

Single Coats - Reduced blade loads

Single coats often include platy pigments inducing difficult coating color rheologies. High machine speeds and low coat weights are very demanding process conditions. **RHEOCOAT™ 93** is the thickener of choice for single coats.

Usual addition rates:

0.05 to 0.4 part dry /100 parts dry pigment

• STORAGE

All pipes and tanks shall be in stainless steel or any corrosion resistant material.

RHEOCOAT™ 93 is a concentrated dispersion. To prevent the formation of a dried film it is strongly advised to avoid prolonged contact to air in the system, storage and valves.

RHEOCOAT™ 93 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.

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

• STANDARD PACKAGING

- 1000 litres containers
- Bulk

• HEALTH & ENVIRONMENTAL DATA

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

Website: www.coatex.com

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