

TECHNICAL DATA SHEET

**CRAYVALLAC® EXTRA**

Micronised polyamide rheology modifier suitable for high-solids and solvent-free applications

**Polyamide**



90% bio-based product

**TYPICAL CHARACTERISTICS**

Nature	<b>Polyamide</b>
Appearance	<b>Off-white micronized powder</b>
Solid Content (%)	<b>100</b>
Active Content (%)	<b>100</b>
Specific gravity	<b>1.01</b>
Particle size distribution	<b>DV.1 min: 1.8 µm / DV.9 max: 15 µm</b>
Bulk density	<b>0.4-0.6</b>
Melting Point (°C)	<b>138</b>
Total Bio content (%)	<b>90</b>

**DESCRIPTION**

CRAYVALLAC® EXTRA is a high performance, micronised amide wax rheology modifier suitable for high-solids and solvent-free applications with very high robustness. It is especially recommended in 2K epoxy primers for its high temperature tolerance. CRAYVALLAC® EXTRA overcomes those difficulties which exist with hydrogenated castor oil based rheology modifiers e.g. seeding and false-body and that were maximised when activation was performed at high temperatures.

**RECOMMENDED ADDITION LEVEL**

0.2-1.5% under heat and shear

**STANDARD PACKAGING**

Other packaging may be available upon request

- 20 Kg Bag

**HANDLING & STORAGE**

It should be stored in the original containers in a dry place at temperatures between 5°C (41°F) and 30°C (86°F). Avoid exposure to direct sunlight or frost. In these conditions, this product should be used within 48 months from production.

**MARKETS**

**Coatings & Inks**

- Industrial Coating

**KEY BENEFITS**

**FORMULATION**

- Easy handling



**STORAGE**

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



**APPLICATION**

- Edge-coverage
- Sag resistance
- Sprayability



**FILM PROPERTIES**

- Anticorrosion
- Gloss
- Levelling



**SAFER SOLUTIONS**

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

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

- Total Bio content (%) **90**

**THICKENING MECHANISM**

Non Associative



**VISCOSITY CONTRIBUTION**

Low Shear contribution



Mid Shear contribution



# CRAYVALLAC® EXTRA

## PROCESSING INSTRUCTIONS

CRAYVALLAC® EXTRA is best added along with the initial charge of resin during the pigment dispersion and grind stage. Efficient activation will be achieved by allowing the temperature during this dispersion process to rise to 45 - 65°C (113 - 149°F), but more preferably from 55 - 65°C (131 - 149°F). This condition of dispersion and temperature control should be maintained for 20 - 30 minutes to ensure full activation. The activation process constitutes the conversion of the CRAYVALLAC® EXTRA particles to an interacting network of crystalline fibres. It is this network that gives rise to the final coating's shear thinning rheology. This shear thinning characteristic provides a very high viscosity under the low shear rates associated with sedimentation, and a low viscosity at the much higher application shear rates. The net result is excellent control of sedimentation combined with ease of application. Immediately following application, where low shear conditions again predominate, the coating's viscosity undergoes a time dependent recovery as the network re-establishes itself. This time dependence is known as thixotropy and enables the final coating to attain very good levelling and sag resistance.

## 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.

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