

## TECHNICAL DATA SHEET

# CRAYVALLAC® SUPER

Micronised polyamide rheology modifier suitable for a wide range of applications

## Polyamide



93% 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>0.98</b>
Particle size distribution	<b>DV. 1 min: 1.8 µm / DV. 9 max: 15.0 µm</b>
Bulk density	<b>0.4-0.6</b>
Melting Point (°C)	<b>125</b>
Total Bio content (%)	<b>93</b>

### DESCRIPTION

CRAYVALLAC® SUPER is a high performance, micronised amide wax rheology modifier suitable for a wide range of solvent-based, high-solids and solvent-free applications. CRAYVALLAC® SUPER overcomes those difficulties which exist with hydrogenated castor oil based rheology modifiers e.g. seeding and false-body. Consequently, coatings formulated using CRAYVALLAC® SUPER exhibit an enhanced performance such as controlled flow behavior, ease of application and excellent sag resistance. Smooth viscosity recovery will help to achieve high film thickness without compromising a good levelling.

### RECOMMENDED ADDITION LEVEL

0.2-1.5% under heat and shear

### STANDARD PACKAGING

Other packaging may be available upon request

- 15 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

#### Electrical & Electronics

- Chemicals For Electronic

#### Coatings & Inks

- Architectural Coating
- Graphic Arts
- Industrial Coating

### KEY BENEFITS

#### FORMULATION

- Easy handling



#### STORAGE

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



#### APPLICATION

- Edge-coverage
- Sag resistance
- Sprayability



#### FILM PROPERTIES

- Gloss
- Levelling
- Transparency



#### SAFER SOLUTIONS

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

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

- Total Bio content (%) **93**

### THICKENING MECHANISM

Non Associative



# CRAYVALLAC® SUPER

## PROCESSING INSTRUCTIONS

CRAYVALLAC® SUPER is best incorporated and activated using a high-speed disperser. It is usually 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 50 – 60°C (122 – 140°F) depending on the coating system characteristics. For the best results this condition of dispersion and temperature should be maintained for 15 – 30 minutes. The use of high-speed dispersers is ideal in that they generate both the necessary shear and temperature required for full dispersion and activation. The activation process constitutes the conversion of the CRAYVALLAC® SUPER particles to an interacting network of fibre-like particles. 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 reestablishes itself. This time dependence is known as thixotropy and enables the final coating to attain very good levelling.

## 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.

## VISCOSITY CONTRIBUTION

Low Shear contribution



Mid Shear contribution



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