

TECHNICAL DATA SHEET

**CRAYVALLAC® MT**

Micronised polyamide modified hydrogenated castor oil rheology modifier

**Castor derivative**



98% bio-based product

**TYPICAL CHARACTERISTICS**

Nature	<b>Castor derivatives</b>
Appearance	<b>Off-white micronized powder</b>
Solid Content (%)	<b>100</b>
Active Content (%)	<b>100</b>
Specific gravity	<b>1.02</b>
Particle size distribution	<b>DV.2 min: 4 µm / DV.8 max: 20 µm</b>
Bulk density	<b>0.4-0.6</b>
Melting Point (°C)	<b>135</b>
Total Bio content (%)	<b>99</b>

**DESCRIPTION**

CRAYVALLAC® MT is a micronised amide modified hydrogenated castor oil rheology modifier for solvent-based and solvent-free systems. CRAYVALLAC® MT is suited to systems based on aliphatic hydrocarbons, aromatic hydrocarbons and aromatic hydrocarbon/alcohol blends. Compared to the most basic hydrogenated castor oil based rheology modifiers, CRAYVALLAC® MT is more tolerant to stronger solvents. CRAYVALLAC® MT particles are converted upon activation into an interacting network of fibre like particles. This network 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.

**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**

**Electrical & Electronics**

**Coatings & Inks**

- Architectural Coating
- Graphic Arts
- Industrial Coating

**Adhesives & Sealants**

- Assembly
- Other Adhesives
- Sealants

**KEY BENEFITS**

**FORMULATION**

- Easy handling



**STORAGE**

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



**APPLICATION**

- Edge-coverage
- Sag resistance
- Sprayability



**FILM PROPERTIES**

- Anticorrosion
- Chemical resistance
- 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 (%) **99**

**THICKENING MECHANISM**

Non Associative



# CRAYVALLAC® MT

## PROCESSING INSTRUCTIONS

CRAYVALLAC® MT is best incorporated during the pigment dispersion stage using a high-speed disperser. In order to obtain the maximum performance from CRAYVALLAC® MT, the dispersion process should be maintained for a period of 20 – 40 minutes at the recommended temperature: Aliphatic hydrocarbons: 35 – 75°C (95 – 167°F) Aromatic hydrocarbons: 30 – 50°C (86 – 122°F) Aromatic hydrocarbon/ Alcohol blends: 30 – 50°C (86 – 122°F) Solvent free epoxy coatings: 40 – 60°C (104 – 140°F) In addition to solvent-based coatings applications, CRAYVALLAC® MT has been used successfully in a multitude of other applications such as inks, adhesives, mastics, caulks, sealants, fillers, greases and lubricants.

## 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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