CRAYVALLAC® ULTRA

Micronised Amide Wax Rheology Modifier

Product Benefits

CRAYVALLAC® ULTRA is a new high performance micronised amide wax rheology modifier offering very good recoatability for ambient curing solvent-based epoxy coatings.

CRAYVALLAC® ULTRA has been designed to overcome those difficulties which exist with older type organo-wax rheology modifiers e.g. seeding, false-body and migration of readily dissolved species to the surface. Consequently, when used in strong solvent systems, coatings formulated using CRAYVALLAC® ULTRA offer an enhanced performance and very good recoatability.

The use of high-speed dispersers is ideal for the incorporation and activation of CRAYVALLAC® ULTRA in that they develop both the necessary level of shear and temperature.

CRAYVALLAC® ULTRA 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 dispersion to rise to 45 - 65°C (113 - 149°F), but more preferably from 55 - 65°C (131 -149°F), and maintaining this condition of dispersion and temperature for 20 - 30 minutes.

The activation process constitutes the conversion of the CRAYVALLAC® ULTRA 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 re-establishes itself. This time dependence is known as thixotropy and enables the final coating to attain very good levelling and sag resistance.

Performance Benefits

- 100% Active
- Imparts shear thinning rheology with thixotropic viscosity recovery
- Very good recoatability
- Excellent sag resistance
- Very good anti-settling properties
- Good storage stability

Recommendations for Use

Anti-Settle and Sag Resistance	0.5 – 1.5%

Sales Specifications

Particle size distribution: (Malvern Mastersizer S laser	DV. 1 min. 1.8 µm
Particle size analyser) (CR005)	DV. 9 max 15.0 µm

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Other Properties

Density at 25°C (77°F), g/cm3 (CR006)	0.98
Bulk density, g/cm^3 (CR016)	0.4-0.6
Appearance	White Powder
Capillary Melting Point (CR003)	121°C (250°F)

Product Safety

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health and environmental information. For environmental, safety and toxicological information, contact our Customer Service Department at 1-866-837-5532 to find an MSDS, or visit our web site: www.arkemacoatingresins.com

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Arkema Coating Resins requests that the customer read, understand, and comply with the information contained in this publication and the current MSDS(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

Storage and Handling

Follow procedures typically recommended for polymer dispersions. Use corrosion-resistant storage tanks and piping. Air-operated diaphragm pumps are preferred. Avoid temperature extremes. Do not freeze; store between 5°- 30°C. Under these conditions the product may be stored for up to 4 years from production date.

ARKEMA
INNOVATIVE CHEMISTRY

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