

## COATING RESINS

### TECHNICAL DATA

### CRAYVALLAC EXTRA

#### SALES SPECIFICATION

Particle size distribution:  
(Malvern Mastersizer S laser particle size analyser) (CR 005)

DV.1 min. 1.8 µm  
DV.9 max. 15 µm

#### OTHER PROPERTIES

Density at 25°C (77°F), g/cm<sup>3</sup> (CR 006) 0.98

Bulk density, g/cm<sup>3</sup> (CR 016) 0.4-0.6

Appearance White powder

Capillary Melting Point (CR 003) 138°C (280°F)

#### PRODUCT INFORMATION

**CRAYVALLAC EXTRA** is a new high performance micronised amide wax rheology modifier for solvent-free ambient curing epoxy coatings. The performance benefits of this product are:

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

#### RECOMMENDED AMOUNTS

Anti-Settling and Sag Resistance 0.5 - 1.5%

#### INCORPORATION METHODS AND PROCESSING INSTRUCTIONS

**CRAYVALLAC EXTRA** is ideally incorporated and activated using a high-speed disperser. The use of high-speed dispersers is ideal in that they generate both the necessary shear and temperature required for full dispersion and activation.

**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.

Due to the multitude of formulations, processing methods and application conditions used in the field, we strongly recommend that all products containing **CRAYVALLAC EXTRA** be tested thoroughly to ensure their suitability for their intended end use. In particular, application in poorly ventilated areas, or on hot substrates, or by hot spray, may require additional attention.

#### PRECAUTIONS FOR STORAGE

**CRAYVALLAC EXTRA** 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. Under these conditions the product may be stored for up to 4 years from production date.

#### PRECAUTIONS FOR USE

Please refer to the corresponding Safety Data Sheet.