

## COATING RESINS

### TECHNICAL DATA

### CRAYVALLAC FLOW-100

#### SALES SPECIFICATION

Non-volatile content, % @ 150°C (302°F) 99 - 100  
(ISO 3251)

Viscosity P. Noury at 25°C (77°F) 130-200  
(ISO 3219)

#### OTHER PROPERTIES

Density at 25°C (77°F), g/cm<sup>3</sup> 1.02

Appearance Clear liquid

Colour, Hazen Scale < 150  
(ISO 6271)

#### PRODUCT INFORMATION

**CRAYVALLAC FLOW-100** is a high performance acrylic flow and levelling agent for the control of coating surface properties. The performance benefits of this product are:

- Enhances substrate wetting, flow and levelling
- Produces smoother films with fewer defects
- Suitable for most coating systems
- Contains no silicone ingredients
- Pourable
- 100% active

The results of these enhancements are smoother films with fewer imperfections and a superior overall appearance when compared with the unmodified coating. **CRAYVALLAC FLOW-100** can be added to coating formulations prior to, or during, the pigment dispersion stage; the presence of acrylic flow and levelling agents often results in improved pigment dispersion. **CRAYVALLAC FLOW-100** may also be added during the letdown either neat or pre-thinned in a suitable solvent to aid mixing.

#### RECOMMENDED AMOUNTS

Generally 0.2 – 2.0 % based on total resin solids

For powder coating applications, **CRAYVALLAC FLOW-100** must be used indirectly following its dispersion in a suitable carrier. A common technique used is to dissolve **CRAYVALLAC FLOW-100** in molten polyester. Once cooled, the polyester/acrylic blend is then suitably granulated for dry blending with the other coating components prior to extrusion.

#### INCORPORATION METHODS AND PROCESSING INSTRUCTIONS

The current trend towards high-solids, solvent-free and powder coatings has reduced or eliminated the role of solvents to overcome the effects of poor substrate wetting and flow. This leads to coatings with an increased level of surface defects and often a reduction in substrate adhesion.

Due to the multitude of formulations, processing methods and application conditions used in the field, we strongly recommend that all products containing **CRAYVALLAC FLOW-100** be tested thoroughly to ensure suitability for their intended end use.

**CRAYVALLAC FLOW-100** has been developed especially to address these issues. This high performance product functions primarily by reducing the surface energy of the coating to give enhanced substrate wetting and an improvement to flow and levelling. The following benefits are to be gained by using **CRAYVALLAC FLOW-100** in powder coatings and coatings in general e.g. solvent-based, high-solids and solvent-free:

#### PRECAUTIONS FOR STORAGE

**CRAYVALLAC FLOW-100** 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 after production date.

- Enhanced substrate wetting
- Improved flow and levelling
- Reduced craters and fisheyes
- Reduced orange peel and pinholes

#### PRECAUTIONS FOR USE

Please refer to the corresponding Safety Data Sheet.