

High performance acrylic flow and leveling agent for solvent-based and powder coatings
Polyacrylate

Typical Characteristics

Nature	Polyacrylate
Appearance	Clear liquid
Solid Content (%)	>99
Active Content (%)	>99
Specific gravity	1.02
Viscosity	120 (Noury viscosity (dPas.s) @25°C)
Color	< 1 (Color Gardner)

Description

CRAYVALLAC® FLOW-100 is a high performance polyacrylate surface tension modifier for the control of coating surface properties. CRAYVALLAC® FLOW-100 is suitable for use in a wide range of solvent based systems and applications. CRAYVALLAC® FLOW-100 has been developed specifically to enhance substrate wetting and to improved leveling for solvent-based, high-solids, solvent-free and powder coatings. 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 leveling. The following benefits are to be gained by using CRAYVALLAC® FLOW-100 when compared with unadditivated coating : film defects such as craters, fisheyes, orange peel and pinholes are reduced where a superior overall appearance of the film is visible with no degradation of the exterior durability.

Recommended addition level

0.2-2.0% under low to medium shear

Standard Packaging

Other packaging may be available upon request

- 200 Kg Drum

Handling & Storage

It should be stored indoors in the original unopened and undamaged container, in a dry place at a temperature not exceeding 85° F (30° C). Exposure to direct sunlight should be avoided.

In these conditions, this product should be used within 48 months from delivery.

Processing instructions

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 leveling 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. 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.

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.

Coatings & Inks

- Graphic Arts
- Industrial Coating
- Textile & Leather Coating

Key Benefits

Formulation

- Compatibility
- Post addition
- Ready to use

Application

- Air release

Film Properties

- Defects reduction
- Gloss
- Levelling

APEO free:

Yes

Bacteria resistance:

Yes

Heavy metal free:

Yes

Solvent-free:

Yes