

TECHNICAL DATA SHEET

CRAYVALLAC® LA-377

Liquid urea rheology modifier for post-addition to waterborne systems

Urea urethane



Produced without LiCl

TYPICAL CHARACTERISTICS

Nature	Urea urethane
Appearance	Clear liquid
Solid Content (%)	50
Active Content (%)	50
Solvent	DMSO
Color	7 max (Color Gardner)
Viscosity	50 - 300 (Viscosity (mPas) at 10000s-1 @25°C)

DESCRIPTION

CRAYVALLAC® LA-377 is a modified urea dissolved in DMSO. CRAYVALLAC® LA-377 is a pourable liquid rheology modifier for post addition to water-based coatings such as water-dilutable alkyds and acrylic emulsions. It was developed to ensure particular suitability for metal coating as its formula is lithium chloride-free. CRAYVALLAC® LA-377 should be added to the coating as a slow stream under low to medium shear conditions to ensure sufficient dispersion. Although efficient stirring is required to ensure homogeneity, elevated temperatures are not required for activation and the use of excessive shear should be avoided.

RECOMMENDED ADDITION LEVEL

0.5-2.0% under low shear dispersion, Post-addition

STANDARD PACKAGING

Other packaging may be available upon request

- 200 Kg Drum
- 25 Kg Pail

HANDLING & STORAGE

It should be stored in the original containers in a dry place at temperatures between 20°C (68°F) and 30°C (86°F). Use corrosion-resistant storage tanks and piping. Avoid exposure to direct sunlight or frost. Containers must be tightly closed after use to exclude moisture. The absorption of moisture will result in the premature crystallization of the modified urea. In these conditions, this product should be used within 12 months from production.

MARKETS

Coatings & Inks

- Architectural Coating
- Flooring
- Graphic Arts
- Industrial Coating
- Textile & Leather Coating
- UV Coatings
- Inks

KEY BENEFITS

FORMULATION

- Easy handling
- Post addition
- Ready to use



STORAGE

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



APPLICATION

- Brushability
- Rollability
- Sprayability



FILM PROPERTIES

- Gloss
- Levelling
- Transparency



SAFER SOLUTIONS

- APEO Free*
- Heavy Metal Free*

* Not intentionally added but not specifically measured (not part of product specification)

THICKENING MECHANISM

Non Associative



CRAYVALLAC® LA-377

PROCESSING INSTRUCTIONS

CRAYVALLAC® LA-377 should be added to the coating as a slow stream under low to medium shear conditions to ensure sufficient dispersion. Although efficient stirring is required to ensure homogeneity, elevated temperatures are not required for activation and the use of excessive shear should be avoided.

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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