

## TECHNICAL DATA SHEET

# CRAYVALLAC® PA3 X 20

Pre-activated amide rheology modifier supplied in xylene

## Polyamide



17% bio-based product

### TYPICAL CHARACTERISTICS

Nature	<b>Polyamide</b>
Appearance	<b>Off-white paste</b>
Solid Content (%)	<b>20</b>
Active Content (%)	<b>20</b>
Specific gravity	<b>0.88</b>
Solvent	<b>Xylene and Alcohol</b>
Total Bio content (%)	<b>17</b>

### DESCRIPTION

CRAYVALLAC® PA3 X 20 is a pre-activated amide wax supplied in a mixture of xylene and alcohols. It is a rheology modifier in paste form for post-addition to solvent-based industrial systems. The use of CRAYVALLAC® PA3 X 20 provides a very simple and direct mean of introducing shear-thinning rheology with thixotropic viscosity recovery to formulations.

### RECOMMENDED ADDITION LEVEL

0.5-5% under low to medium shear dispersion

### STANDARD PACKAGING

Other packaging may be available upon request

- 15 Kg Pail

### HANDLING & STORAGE

It 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. In these conditions, this product should be used within 24 months from production.

### MARKETS

#### Coatings & Inks

- Industrial Coating

#### Chemical & Plastic Industry

- Chemical & Plastic Distribution

#### Adhesives & Sealants

- Assembly
- Other Adhesives

### KEY BENEFITS

#### FORMULATION

- Ready to use
- Easy handling
- Post addition



#### STORAGE

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



#### APPLICATION

- Edge-coverage
- Sag resistance
- 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)

# CRAYVALLAC® PA3 X 20

## PROCESSING INSTRUCTIONS

In order to obtain maximum efficiency from CRAYVALLAC® PA3 X 20, it is necessary to disperse this product without destroying the crystalline fibres. It is therefore preferable to incorporate CRAYVALLAC® PA3 X 20 under low to medium shear conditions over as short a time period as possible. There are two main methods by which CRAYVALLAC® PA3 X 20 can be incorporated: Post addition: When using a high-speed disperser, CRAYVALLAC® PA3 X 20 is added during the final stages of production, when the coating has been partially thinned to a viscosity of 600-800mPas (ICI cone and plate at 10000s-1) and the peripheral speed reduced to approximately 4ms-1. Too high a speed will result in destruction of the active fibres and reduced performance, whereas, too low a speed will result in extended incorporation times. In general, the time required for incorporation should be kept to a minimum in order to minimise damage due to overshear. Master batch preparation: A master batch can be prepared by dispersing CRAYVALLAC® PA3 X 20 in a resin and/or solvent using low to medium shear rates. This dispersion can then be added to the finished coating. Due to the multitude of formulations, processing methods and application conditions used in the field, we strongly recommend that all products containing CRAYVALLAC® PA3 X 20 be tested thoroughly to ensure suitability for their intended end use. In particular, the suitability of this product for application by hotspray, or curing in poorly ventilated areas may require additional validation. We do not recommend CRAYVALLAC® PA3 X 20 for forced cure and stoving applications.

## 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.

- Total Bio content (%) **17**

## THICKENING MECHANISM

Non Associative 

## VISCOSITY CONTRIBUTION

Low Shear contribution   
Mid Shear contribution 

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