

## TECHNICAL DATA SHEET

# CRAYVALLAC® PA3 BA 20

Pre-activated amide rheology modifier dispersed in butyl acetate

## 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>0.86</b>
Solvent	<b>Butyl Acetate and Alcohol</b>
Total Bio content (%)	<b>17</b>

### DESCRIPTION

CRAYVALLAC® PA3 BA 20 is a HAPs-free pre-activated amide wax supplied in a mixture of butyl acetate and alcohol. It is a rheology modifier in paste form with high efficiency (optimum sag resistance and viscosity). CRAYVALLAC® PA3 BA 20 is supplied in the form of crystalline fibres. In a coating system, these fibres form an interacting network. This network gives rise to the shear thinning rheology of the final coating. 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.

### RECOMMENDED ADDITION LEVEL

0.5-5% under medium shear

### 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

- Graphic Arts
- Industrial Coating
- Textile & Leather Coating

#### 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

- Anticorrosion
- Gloss
- Levelling



#### SAFER SOLUTIONS

- APEO Free\*
- Heavy Metal Free\*

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

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

# CRAYVALLAC® PA3 BA 20

## PROCESSING INSTRUCTIONS

In order to obtain the maximum efficiency from CRAYVALLAC® PA3 BA 20, it is necessary to disperse this product without destroying the crystalline fibres. It is therefore preferable to incorporate CRAYVALLAC® PA3 BA 20 under low to medium shear conditions over as short a time period as possible. When using a high-speed disperser, it is recommended that CRAYVALLAC® PA3 BA 20 be added during the final stages of production, when the coating has been partially thinned to a viscosity of 600-800 mPa.s (ICI cone and plate at 10000s<sup>-1</sup>) and the peripheral speed reduced to approximately 4 ms<sup>-1</sup>. Too high a speed results 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 minimize damage due to overshear.

## 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.

## THICKENING MECHANISM

Non Associative 

## VISCOSITY CONTRIBUTION

Low Shear contribution   
Mid Shear contribution 

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

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