# CRAYVALLAC<sup>®</sup> PA4 WDA 12

Pre-activated amide rheology modifier dispersed in mineral spirit **Polyamide** 

# **TYPICAL CHARACTERISTICS**

Nature Appearance Solid Content (%) Active Content (%) Specific gravity Solvent

Polvamide **Off-white paste** 12 12 0.88 **D60 and Alcohol** 

# DESCRIPTION

CRAYVALLAC® PA4 WDA 12 is a pre-activated amide wax supplied in a mixture of mineral spirit (D60) and alcohols. Under paste form for post addition to solvent-based low polarity coating systems, it provides a very simple and direct mean of introducing shear-thinning rheology with thixotropic viscosity recovery to coating formulations. It is a softer version than CRAYVALLAC® PA3 WDA 20 with enhanced ease of incorporation. It is also a very cost efficient alternative to organoclays. The shear-thinning characteristic provides a very high viscosity under the low shear rates and a low viscosity at the much higher application shear rates. The net result is excellent control of sedimentation combined with ease of application. Immediately following application, the coating's viscosity undergoes a time dependent recovery as the network re-establishes itself. This time dependence is known as thixotropy and enables the final coating to attain very good levelling.

# **RECOMMENDED ADDITION LEVEL**

1.0-5.0% 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.

### **PROCESSING INSTRUCTIONS**

In order to obtain maximum efficiency from CRAYVALLAC® PA4 WDA 12, it is necessary to disperse this product without destroying the crystalline fibres under low to medium shear conditions over as short a time period as possible. There are two main methods by which it can be incorporated: Post addition: Using a high-speed disperser, it 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 4m.s-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 minimize damage due to overshear. Master batch: To be prepared by dispersing it in a resin and/or solvent using low to medium shear rates. This dispersion can then be added to the finished coating.

# 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.

# MARKET

#### **Coatings & Inks**

- Architectural Coating
- Industrial Coating

#### **KEY BENEFITS**

FORMULATION <ul> <li>Ready to use</li> <li>Easy handling</li> <li>Post addition</li> </ul>	••••
STORAGE <ul> <li>Antisettling</li> <li>In-can appearence</li> <li>Syneresis resistance</li> <li>Viscosity stability</li> </ul>	••••• •••••
APPLICATION • Edge-coverage • Sprayability • Temperature resistance	•••••
FILM PROPERTIES	••••
<ul> <li>APEO free</li> <li>Bacteria resistance</li> <li>Bio content (%)</li> <li>Heavy metal free</li> </ul>	Yes Yes 10 Yes
THICKENING MECHANISM	
Non Associative	•••••
VISCOSITY CONTRIBUTION	
Low Shear contribution	

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