

COATING RESINS

TECHNICAL DATA

CRAYVALLAC PA3 S 12

SALES SPECIFICATION

Non-volatile content, % @ 150°C (302°F) 12 ± 1
(CR 011)

OTHER PROPERTIES

Volatile

Styrene and Alcohol

Appearance

Off white paste

PRODUCT INFORMATION

CRAYVALLAC PA3 S 12 is a pre-activated amide wax dispersed in a mixture of styrene and alcohols. It is a rheology modifier in paste form for post-addition in UPR, Gelcoats and wood coatings. The use of **CRAYVALLAC PA3 S 12** provides a very simple and direct means of introducing shear-thinning rheology with thixotropic viscosity recovery to these systems.

The performance benefits of the **CRAYVALLAC PA3 S 12** are:

- Suitable for post-addition
- Easy to incorporate
- Imparts shear-thinning rheology with thixotropic viscosity recovery
- Very good sag resistance
- Very good anti-settle properties
- Excellent pigment and filler suspension during storage
- Good recoatability / Secondary bonding
- Excellent transparency

In addition to these excellent performance benefits, **CRAYVALLAC PA3 S 12** is also a very cost efficient alternative to organoclays and can also be used in combination with fumed silicas and organoclays.

RECOMMENDED AMOUNTS

Anti-Settling 0.5 - 2.0%
Sag Resistance 2.0 - 5.0%

INCORPORATION METHODS AND PROCESSING INSTRUCTIONS

CRAYVALLAC PA3 S 12 is a pre-activated amide paste and exists in the form of crystalline fibres. In the final system, these fibres form an interacting network. It is this fibrous network that 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.

Immediately following application, where low shear conditions again predominate, 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.

In order to obtain maximum efficiency from **CRAYVALLAC PA3 S 12**, it is necessary to disperse this product without destroying the crystalline fibres. It is therefore preferable to incorporate **CRAYVALLAC PA3 S 12** under low to medium shear conditions over as short a time period as possible. There are two main methods by which **CRAYVALLAC PA3 S 12** can be incorporated:

Direct incorporation

CRAYVALLAC PA3 S 12 can be directly added into pigmented systems such as gelcoats under medium shear conditions.

Master batch preparation

A master batch can be prepared by dispersing **CRAYVALLAC PA3 S 12** in a resin and/or solvent using low to medium shear rates. The dispersion can then be added to the finished formulation.

Due to the multitude of formulations, processing methods and application conditions used in the field, we strongly recommend that all products containing **CRAYVALLAC PA3 S 12** be tested thoroughly to ensure suitability for their intended end use. In particular, the suitability of this product for application by hot-spray, or curing in poorly ventilated areas may require additional validation.

PRECAUTIONS FOR STORAGE

CRAYVALLAC PA3 S 12 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. Under these conditions the product may be stored for up to 12 months from production date.

PRECAUTIONS FOR USE

Please refer to the corresponding Safety Data Sheet.