

COATING RESINS

TECHNICAL DATA

CRAYVALLAC PA5 DA 25

SALES SPECIFICATION

Active content, %
(CR024) 25 ± 1

OTHER PROPERTIES

Appearance	Off-White Paste
Density at 25°C (77°F), g/cm ³ (CR006)	0.88
Carrier	DIUP

PRODUCT INFORMATION

CRAYVALLAC PA5 DA 25 is a pre-activated amide wax dispersed in a plasticizer known as DIUP. It is a rheology modifier in paste form designed for activation-free manufacture of moisture curing methoxysilane based sealants.

CRAYVALLAC PA5 DA 25 provides a very simple and direct means of introducing shear-thinning rheology with thixotropic viscosity recovery to sealants and adhesives formulations.

The performance benefits of this product are:

- Pre-activated
- Activation free, do not need heat activation
- Suitable for post-addition
- Easy to incorporate
- Imparts-shear thinning rheology
- Reduced production cycle times and costs
- Very good extrusion properties
- Excellent sag and slump resistance
- Minimal effect on modulus
- Excellent storage stability
- Good repeatability from batch to batch

CRAYVALLAC PA5 DA 25 provides equivalent performance to our **CRAYVALLAC SL** and **CRAYVALLAC SLX**.

RECOMMENDED AMOUNTS

For one component moisture curing methoxysilane based sealants, excellent slump and sag control will generally be obtained when **CRAYVALLAC PA5 DA 25** is used at a level of 1-5 % of active material (4 to 20% under delivery form) by mass on total formulation.

INCORPORATION METHODS AND PROCESSING INSTRUCTIONS

CRAYVALLAC PA5 DA 25 is specially designed for the manufacture of one-component methoxysilane sealants in order to reduce production cycle times and energy costs by providing excellent rheology without any activation step. **CRAYVALLAC PA5 DA 25** is a pre-activated paste and exists in the form of crystalline fibres. In a sealant system, these

fibres form an interacting network. It is this fibrous network that gives rise to the shear-thinning rheology of the final sealant. This shear thinning characteristic provides for a low viscosity at the shear rates associated with application by extrusion, and a very high viscosity under the low shear rates experienced after application. The net result is ease of application followed by excellent sag and slump resistance.

Unlike our **CRAYVALLAC SL** and **CRAYVALLAC SLX**, **CRAYVALLAC PA5 DA 25** only needs to be dispersed into the system whatever the temperature. For this reason, **CRAYVALLAC PA5 DA 25** can be added at any stage of the production under medium shear. Heat and high shear are not necessary to get good performance.

In order to optimize production time and energy costs, we nevertheless recommend to add **CRAYVALLAC PA5 DA 25** during or before the dispersion of pigments and fillers along with the initial charge of methoxysilane polymer and plasticizer.

Due to the multitude of formulations, processing methods and application conditions used in the field, we strongly recommend that all products containing **CRAYVALLAC PA5 DA 25** be tested thoroughly to ensure suitability for their intended end use.

PRECAUTION FOR STORAGE

CRAYVALLAC PA5 DA 25 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 24 months.

PRECAUTION FOR USE

Please refer to the corresponding Safety Data Sheet.