

BYK-2616

Low-emission additive for the removal of moisture in PVC plastisols and to accelerate ambient curing acrylate systems.

Product Data

Composition

Specially prepared finely dispersed calcium oxide and stabilizing wetting agent

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	1.94 g/ml
Non-volatile matter (10 min., 150 °C):	> 98 %
Flash point:	162 °C
Supplied as:	Paste

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Separation possible. Mix well before use.

Applications

PVC Plastisols

Special Features and Benefits

The additive is capable of removing even large quantities of moisture in a very short time from the system to be processed. This is achieved by using wetting and dispersing carrier media. A special processing technology is used to activate and stabilize the inorganic moisture absorber, calcium oxide. This achieves an extremely favorable ratio of dosage/effect.

This presents the following advantages:

- Prevents blistering when coating glass or synthetic non-woven materials with PVC plastisols for flooring and roofing felt
- Prevents surface defects such as bubbles and cratering when processing PVC pastes using casting and rotational molding processes
- Removes residual moisture from certain PVC grades
- Absorbs moisture that enters into the system through fillers and pigments
- Removes moisture from the plastic blend that enters the system as condensation from cooling systems or coating devices
- Enables the uncomplicated processing of damp regenerated plastics that have been stored for long periods

Recommended Levels

0.75-2.5 % additive (as supplied) based on the total formulation, depending on the moisture content of the system.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-2616 can be added during the production of the plastisol or directly to the finished system. Ensure that BYK-2616 is correctly dispersed.

Special Note

Influence on the color and inhibition should be tested before the additive is used in chemically foamable plastisols.

Ambient Curing Resin Systems**Special Features and Benefits**

BYK-2616 is used as an accelerator in acrylate systems which are cured using TBPM (tert-butyl monoperoxymaleate). Compared with standard calcium hydroxide suspensions, BYK-2616 offers the following advantages:

- stable particle size distribution
- not necessary to handle caustic dusts
- no sedimentation, even distribution in the system
- no CO₂ uptake
- simple dosage of the liquid additive

The entire process is simplified and fluctuations in the curing behavior are minimized.

Recommended Levels

1-2 % additive (as supplied) based on the liquid resin (syrup).

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-2616 is added to the resin and is homogeneously incorporated.



Additive Guide



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