

Substance for Success.

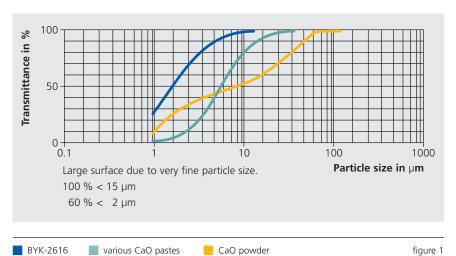


Technical Information PVC-TI 5

Moisture Absorber

PVC Plastisol Applications

Particle Size Analysis (Laser Diffraction)

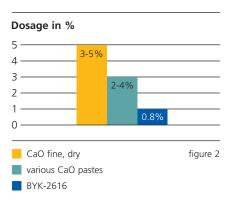


Moisture Absorber BYK-2616

BYK-2616 is a finely-dispersed (74% solids), low-emission CaO paste. This pumpable product is stable under normal storage conditions. The high amount of surface area gives the BYK-2616 its optimal effectiveness (figure 1).

BYK-2616 eliminates moisture, even in large amounts, in a short period of time. Utilizing a special preparation technique, in combination with wetting and dispersing additives, the inorganic moisture absorber CaO is activated and stabilized. Thus, an extremely favorable dosage/effect is achieved.

Efficiency of BYK-2616 Compared to Other Moisture Absorbers



Dosage and Incorporation

The dosage depends on the moisture level in the system, usually between 0.75-2.5% (figure 2).

The exact dosage should be determined by a series of tests. The influence on color, cell structure and chemical embossing inhibition should be tested before using the CaO paste in a chemically foamed plastisol.

BYK-2616 can be incorporated at any time of the production of the PVC plastisol. It is important that the BYK-2616 is well dispersed into the system.



Benefits of BYK-2616

- Good storage stability (figure 3).
- Pumpable (figure 4).
- Dust-free incorporation.
- Eliminates even large quantities of moisture very quickly. Surface defects such as blistering and craters can be prevented, during the processing of plastics e.g. PVC, PUR and rubber (figure 5).
- Enables coating without pre-drying if moisture is present in the carrier or substrate.
- Absorbs moisture carried into the system by the polymer, fillers, pigments or reinforcement.

Good Storage Stability due to High Yield Point

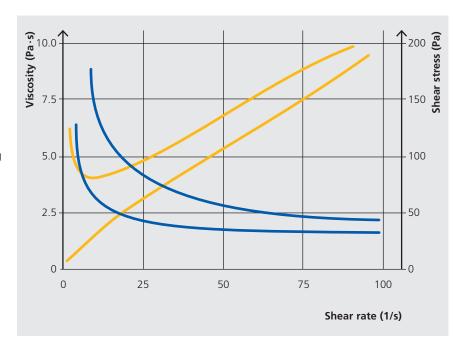


figure 3

Pumpable



Bung hole in the center of the lid improves protection to atmospheric moisture when using a pump lance

Application Example

Gelled PVC plastisol with 0.5% H₂O







figure 5

figure 4

Application Fields

BYK-2616

is recommended for use in all PVC plastisols with exception of chemically foamed plastisols

figure 6



Products and Applications

BYK Additives

Additives are used during the production of coatings, printing inks and plastics to optimize the production process and to improve the quality of the final product.

Product Range Additives

- Additives to improve surface slip, leveling and substrate wetting
- Adhesion promoters
- Defoamers and air release agents
- Foam stabilizers
- Processing additives
- Rheological additives
- UV-absorbers
- Viscosity depressants
- Wetting and dispersing additives for pigments and extenders

Application Areas

- Ambient curing resins (FRP)
- Architectural coatings
- Automotive OEM
- Automotive refinishes
- Can coatings
- Coil coatings
- Color masterbatches
- Industrial coatings
- Leather coatings
- Marine paints
- Molding compounds
- Paper coatings
- Pigment concentrates
- Polyurethane foams
- Powder coatings
- Printing inks
- Protective coatings
- PVC plastisols
- Thermoplastics
- Wood and furniture coatings

BYK Instruments

BYK offers a complete line of testing instruments to meet your needs in many application areas:

- Gloss/Appearance
- Color

Portable or stationary laboratory equipment - including easy to use quality control software.

BYK instruments – the complete solution for the coatings and plastics industry.

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