

BYK-361 N

Polyacrylate-based surface additive for solvent-borne and solvent-free coatings, for UV-reactive printing inks and overprint varnishes as well as powder coatings. Improves leveling and prevents craters. Also suitable for ambient curing plastic systems. Solvent-free version of BYK-358 N.

Product Data

Composition

Polyacrylate

Typical Properties

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

Density (20 °C): 1.03 g/ml

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.

Special Note

The additive is thermally stable up to approx. 240 °C. It is also available under the name BYK-358 N as a 52 % solution in alkyl benzenes.

Applications

Liquid Coatings

Special Features and Benefits

The additive is used as an anti-cratering and leveling additive in all solvent-borne and solvent-free coatings. It increases gloss and gives the coatings a long wave effect. It only causes a minor reduction in surface tension and does not negatively influence the recoatability and intercoat adhesion. BYK-361 N does not cause turbidity in clear coats or haze in pigmented systems.

Recommended Levels

0.05-0.5 % additive (as supplied) based upon total formulation.

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

Incorporation and Processing Instructions

The additive can be incorporated during any stage of the production process, including post-addition.

Powder Coatings

Special Features and Benefits

The additive combines the best anti-cratering effect with optimum leveling and DOI (distinctness of image). Fish eyes and pinholes in the powder coating layer are prevented. It does not cause haze in pigmented powder coatings and does not cause turbidity in powder clear coats. Its low viscosity and good compatibility enable easy incorporation in the resin when producing the masterbatch.

Recommended Use

The additive is recommended for manufacturing resin masterbatches for powder coatings, especially for powder clear coats.

Recommended Levels

0.5-15 % additive (as supplied) based upon the resin.

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

Incorporation and Processing Instructions

The additive is added to the powder coating resin at the end of the manufacturing process and mixed with the resin.

Printing Inks and Overprint Varnishes

Special Features and Benefits

The additive improves leveling and increases gloss in all solvent-free and aqueous UV-reactive printing inks and overprint varnishes. It only causes a minor reduction in surface tension and does not negatively influence the overprinting capability.

Recommended Levels

0.05 - 0.5 % additive (as supplied) based upon total formulation.

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

Incorporation and Processing Instructions

The additive can be incorporated during any stage of the production process, including post-addition.

Ambient-curing Plastic Systems

Special Features and Benefits

The additive is used as an anti-cratering and leveling additive in all solvent-borne and solvent-free systems. It only provides a minor reduction of the surface tension and facilitates the acceptance of spray mist and dust. BYK-361 N does not cause turbidity in non-pigmented systems or haze in pigmented systems.

Recommended Use

The additive is recommended for all ambient curing resin systems such as unsaturated polyester resins and epoxy resins.

Recommended Levels

0.1-0.5 % additive (as supplied) based upon total formulation.

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

Incorporation and Processing Instructions

The additive can be incorporated during any stage of the production process, including post-addition.

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This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases.

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