

BYK-361 N

Polyacrylate-based surface additive to improve leveling and prevent craters in solvent-borne and solvent-free 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

Active substance: 100 %

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

Coatings industry

Special features and benefits

The additive is used as a leveling additive in all solvent-borne and solvent-free coatings, increases gloss and gives the coatings a long wave effect. It only slightly reduces surface tension and does not cause any undesired effects such as affecting recoatability and intercoat adhesion, turbidity in clear coats or haze in pigmented systems

Recommended use

General industrial coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>
Automotive refinish coatings	<input checked="" type="checkbox"/>
Automotive OEM coatings	<input type="checkbox"/>
Coil coatings	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended levels

0.05–1 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process and can also be post-added.

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. The optimum dosage should be determined by application-related test series.

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**Special features and benefits**

The additive improves leveling and increases gloss in all solvent-free and aqueous radiation-curing 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. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process and can also be post-added.

Inkjet inks**Special features and benefits**

The additive improves leveling and increases gloss in all solvent-free and aqueous radiation-curing inkjet inks. 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. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process and can also be post-added.

Thermosets

Special features and benefits

BYK-361 N is used as an anti-cratering additive and improves the leveling. It only provides a minor reduction of the surface tension and facilitates the acceptance of spray mist and dust. The additive neither causes turbidity in unpigmented systems nor haze in pigmented systems.

Recommended use

The additive is recommended for all ambient-curing resin systems, in particular for unsaturated polyester resins, epoxy resins and polyurethanes. It is widely used in gelcoats, continuous laminating, casting systems and coatings.

Recommended levels

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

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process and can also be post-added.



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