

BYK-356

Polyacrylate-based surface additive for solvent-borne and solvent-free coatings and powder coatings to improve leveling. Solvent-free version of BYK-355.

Product data

Composition

Polyether-macromer-modified polyacrylate

Solvent-free

Typical properties

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

Density (20 °C): 1.05 g/cm³

Delivery form: liquid

Storage and transportation

Product shelf life in unopened original packaging: 48 months

To be stored and transported at a temperature below 50 °C.

Special note

The additive is thermally stable up to approx. 240 °C. It is also available under the name BYK-355 as a 52 % solution in methoxypropylacetate.

Applications

Coatings industry

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 produces a long wave effect. It reduces the surface tension only to a slight extent, and does not impair the recoatability and the intercoat adhesion.

Recommended use

Automotive OEM coatings	☐
Automotive refinish coatings	☐
General industrial coatings	☐
Can coatings	☐
Coil coatings	☐
Marine and protective coatings	☐

☒ Especially recommended
 ☐ Recommended

Recommended levels

0.05-0.7 % additive (as supplied) based on the 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, 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 master batch.

Recommended use

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

Recommended levels

0.5-15 % additive (as supplied) based on 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.



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