NANOBYK-3610

Nanoparticle dispersion (surface-treated aluminum oxide) to improve the scratch resistance of solvent-borne wood coatings and industrial coatings.

Product Data

Composition
Dispersion of surface-treated aluminum oxide nanoparticles

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

Density (68 °F):	10.43 lbs/US gal
Non-volatile matter (10 min., 302 °F):	37 %
Carrier:	Methoxypropylacetate
Flash point:	104 °F
Nanoparticle content:	30 %
Particle size D50:	20 nm
Viscosity (68 °F):	10 mPa·s

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
To be stored and transported at a temperature below 40 °C (104 °F). Separation or turbidity may occur during storage and transportation. Mix well before use.

Special Note
The product must be stirred thoroughly before processing. Dried additive residues must be removed from the container since they can lead to seeding when introduced into the final product.

Applications

Coatings Industry

Special Features and Benefits
The additive improves the scratch resistance of coating surfaces. Even low levels of 0.5-6.0 % NANOBYK-3610 considerably improve the scratch resistance without having a significant impact on the optical coating properties such as gloss, color, transparency and other physical properties.

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Recommended Levels

0.5-6.0 % 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 product reaches its full effectiveness when added at low shear forces. This ensures that even distribution in the binder system is achieved.

Additive Guide

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