DISPERBYK-109

Solvent-free wetting and dispersing additive for solvent-borne, medium-polar to non-polar TPA or alkyd resin coatings to disperse inorganic pigments and to improve color paste acceptance

Product Data

Composition
High molecular weight alkylolamino amide

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

Amine value: 140 mg KOH/g
Density (20 °C): 0.95 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.

Storage and Transportation
Separation or turbidity possible during storage or transport under 10 °C. Warm to 30-60 °C and mix well.

Special Note
Due to the high amine value, drying of alkyd resins can be impacted by overdosing.

Applications

Coatings Industry

Special Features and Benefits
By using DISPERBYK-109, the color paste acceptance of medium-polar to non-polar TPA and alkyd resin coatings is greatly improved. DISPERBYK-109 can also be post-added to the coating system. However, this should be done before the addition of the color paste. DISPERBYK-109 is also used to disperse inorganic pigments (titanium dioxide and fillers) in TPA and alkyd resin coatings.

Recommended Levels
1-2 % additive (as supplied) based upon titanium dioxide. As post-additive to improve color acceptance: 0.3-1 % 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

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. The resin and solvent components of the millbase are pre-mixed and then the additive is slowly incorporated while stirring continuously. Do not add the pigments until the additive has been fully distributed. To improve color acceptance, the additive can also be post-added into the coating.

Special Note

When added at concentrations of 1 % or higher (based upon total formulation), the effects on drying and yellowing should be tested.

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