

DISPERBYK-106 DISPERBYK-107 DISPERBYK-108

Wetting and Dispersing Additives for Solvent-Borne and Solvent-Free Systems

Composition

DISPERBYK-106	Salt of a polymer with acidic groups
DISPERBYK-107	Solution of a hydroxyfunctional carboxylic acid ester with pigment affinic groups
DISPERBYK-108	Hydroxyfunctional carboxylic acid ester with pigment affinic groups

Typical Properties

	Amine value in mg KOH/g	Acid value in mg KOH/g	Density at 20°C in g/ml	Non-volatile matter in %	Flash point in °C
DISPERBYK-106	74 Solvents: –	132	0,98	91,0	> 100
DISPERBYK-107	64 Solvents: Isoparaffinic hydrocarbons	–	0,92	90,0	> 50
DISPERBYK-108	71 Solvents: –	–	0,94	> 97,0	> 100

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

Recommended Levels

	% additive (as supplied) based upon				
	transparent iron oxide pigment	inorganic pigments	organic pigments	titanium dioxide	carbon blacks
DISPERBYK-106	10 - 20	5 - 15	10 - 30	–	–
DISPERBYK-107	–	3 - 5	5 - 8	0,7 - 1,5	8 - 10
DISPERBYK-108	–	3 - 5	5 - 8	0,8 - 1,5	8 - 10

The above recommended use levels are strongly dependent on pigment particle size. Optimal levels may be determined with a **ladder series** in the laboratory.

Incorporation and Processing Instructions

For optimum performance the additive should be added to the binder before addition of the pigments.

Applications

	Architectural coatings	Industrial coatings	Wood and furniture coatings	Solvent-borne pigment concentrates
DISPERBYK-106	■	■	■	■
DISPERBYK-107	■	□	□	■
DISPERBYK-108	■	■	□	■

■ recommended □ suitable

Function

These additives **deflocculate** pigments through steric stabilization of the pigments. Due to the small particle sizes of the deflocculated pigments, high gloss is achieved and color strength improved. Additionally, transparency and hiding power are increased. These products reduce viscosity, subsequently, leveling is improved and higher pigment loading is possible.

Special Features and Benefits

DISPERBYK-106	<p>shows good results in dispersion especially of transparent and opaque inorganic pigments and treated phthalocyanine pigments.</p> <p>It is distinguished by an easy handling of the grind. It can also prevent post-gellation of pastes during storage.</p> <p>DISPERBYK-106 reduces viscosity, is low in odor and is 100%, solvent free. It shows a universal compatibility with binders of different polarity (e. g. aromatic-free alkyd resins or aldehyd resins). Pigment concentrates produced with DISPERBYK-106 are compatible with concentrates based with DISPERBYK-108 or DISPERBYK-116 (see data sheet W211).</p>
DISPERBYK-107	<p>DISPERBYK-107 was especially developed for solvent-borne architectural paints to stabilize titanium dioxide, extenders and other inorganic and organic pigments. Often the extender content can be increased without losing gloss. Mill-base viscosity is reduced drastically. White base paints stabilized with DISPERBYK-107 have better color acceptance and do not demonstrate flooding and floating when tinted with universal colorants. DISPERBYK-107 is suitable for the formulation of pigment concentrates based on long oil alkyds.</p>
DISPERBYK-108	<p>DISPERBYK-108 is the solvent-free version of DISPERBYK-107. Therefore it is especially suitable for the production of flood/float-free high-solids and aromatic-free decorative and architectural paints. DISPERBYK-108 is successfully utilized in the production of solvent-borne pigment concentrates for architectural paints.</p>

Special Note

DISPERBYK-106	<p>When stored at higher temperatures acid value may change. This has no influence on product quality.</p>
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