

DISPERBYK-171

Wetting and dispersing additive to produce pigment concentrates for unsaturated polyester resin systems and gel coats.

Product Data

Composition

Solution of modified polyurethane

Typical Properties

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

Non-volatile matter (120 min., 105 °C): 39.5 %

Acid value: 13 mg KOH/g

Density (20 °C): 1.02 g/ml

Solvents: Methoxypropylacetate/butylacetate 4/1

Flash point: > 35 °C

Storage and Transportation

Separation or turbidity may occur at temperatures below 5 °C. Warm to 20 °C and mix well.

Applications

Ambient Curing Resin Systems

Special Features and Benefits

DISPERBYK-171 defloculates pigments by means of steric stabilization. As a result of the small particle size of the defloculated pigments, color strength is improved. Moreover, the viscosity is reduced so that a higher pigment loading is possible. DISPERBYK-171 prevents flooding/floating, even in complex pigment/paste combinations and difficult colors.

Recommended Use

Particularly recommended for producing pigment concentrates for gel coats; also recommended to stabilize pigments in gel coats.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 10-18 %
Titanium dioxides: 4-6 %
Organic pigments: 35-60 %
Carbon blacks: 70-120 %

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, DISPERBYK-171 should be added slowly to the resin whilst stirring. Only add the pigments once the additive has been uniformly distributed. Dispersion then takes place and finally, more resin is added if necessary.



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This issue replaces all previous versions.