BYK-W 980

Wetting and dispersing additive to reduce viscosity and prevent fillers from settling in ambient curing resin systems and adhesives as well as for polyester molding compounds, wet mat molding and pultrusion applications

Product data

Composition
Solution of a salt of unsaturated polyamine amides and acidic polyesters

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

Density (20 °C):	0.99 g/ml
Non-volatile matter (10 min, 150 °C):	80 %
Flash point:	66 °C
Acid value:	40 mg KOH/g
Amine value:	30 mg KOH/g
Bio-based carbon content (ASTM D6866):	61 %

Storage and transportation
Mix well before use. Separation or turbidity possible. Warm to 30–60 °C and mix well.

Applications

Thermosets

Special features and benefits
The wetting and dispersing additive improves the dispersion of all conventional fillers, such as calcium carbonate and aluminum hydroxide. It reduces the viscosity of the filled resin, allowing a higher filling level. In most cases, the settling of fillers during storage and processing is reduced.

Recommended use
The additive is especially recommended for unsaturated polyester resins as well as acrylic, polyurethane and epoxy resins, and is highly effective in all areas of application.

Recommended levels
0.5–1.5 % additive (as supplied) based upon fillers.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions
For optimal performance, the additive should be incorporated before solids are added.

Adhesives and sealants

Special features and benefits
The additive improves the wetting and dispersion of all mineral fillers, such as calcium carbonate and aluminum hydroxide (ATH), which lowers viscosity and allows higher filling levels. At the same time, the sedimentation of fillers is often reduced, preventing deposits. In many cases, the additive is more effective than BYK-W 966.

Recommended use
The additive is particularly recommended for adhesives on the basis of polyurethane, epoxy and acrylic resins.

Recommended levels
0.5–1.5 % additive (as supplied) based upon fillers.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions
For optimal performance, the additive should be incorporated before solids are added.

SMC, Wet Mat Molding and Pultrusion

Special features and benefits
The additive improves the wetting and dispersion of fillers in wet mat molding and HMC polyester molding compounds. This lowers the viscosity, allows higher filling levels and improves glass fiber wetting. In pultrusion applications, the additive improves the wetting and dispersion of fillers, prevents the fillers from settling in the impregnation bath, and improves glass fiber wetting through lowered viscosity.

Recommended use
The additive is particularly recommended for HMC polyester molding compounds, wet mat molding and pultrusion applications on the basis of UP/VE, epoxy and acrylic resins.

Recommended levels
1–2 % additive (as supplied) based upon fillers for HMC molding compounds and wet mat molding.
0.5–1.5 % additive (as supplied) based upon fillers for pultrusion applications.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions
For optimal performance, the additive should be incorporated before solids are added.

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This issue replaces all previous versions.