

# 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

Percentage of renewable  
raw materials: 52 %

### Typical Properties

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

Amine value:	30 mg KOH/g
Acid value:	40 mg KOH/g
Density (20 °C):	0.99 g/ml
Non-volatile matter (10 min., 150 °C):	80 %
Flash point:	66 °C

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

### Storage and Transportation

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

## Applications

### Ambient Curing Systems

#### 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. Optimal levels are determined through a series of laboratory tests.

#### Incorporation and Processing Instructions

For optimal performance, the additive should be incorporated before solids are added.

## Adhesives & 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. Optimal levels are determined through a series of laboratory tests.

### 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. Optimal levels are determined through a series of laboratory tests.

### Incorporation and Processing Instructions

For optimal performance, the additive should be incorporated before solids are added.

#### BYK-Chemie GmbH

P.O. Box 10 02 45  
46462 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

info@byk.com  
www.byk.com/additives

ANTI-TERRA®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, DISPERBYK®, DISPERPLAST®, LACTIMON®, NANOBYPK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera.

SCONA® is a registered trademark of BYK Kometra.

This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases.

This issue replaces all previous versions – Printed in Germany