

# BYK-044

Silicone-containing defoamer for aqueous printing inks and overprint varnishes.

## Product Data

### Composition

Emulsion of hydrophobic solids and polysiloxanes

VOC-free (< 1500 ppm)

### Typical Properties

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

Density (68 °F): 8.60 lbs/US gal

Non-volatile matter (10 min., 302 °F): 57 %

### 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

Storage and transportation between 0 °C (32 °F) and 40 °C (104 °F). If the temperature has exceeded or fallen below the recommended range, the product has to be tested before use and, if necessary, be re-emulsified at room temperature.

## Applications

### Printing Inks

#### Special Features and Benefits

BYK-044 is recommended as a millbase defoamer, to defoam aqueous pigment concentrates and for overprint varnishes.

#### Recommended Levels

0.05-0.5 % additive (as supplied) based upon total formulation.

0.2-2 % additive (as supplied) in the pigment concentrates.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

#### Incorporation and Processing Instructions

Due to its high incompatibility, the defoamer must be incorporated at high shear forces to ensure a good distribution. Otherwise defects may occur in the system.

## BYK-044

Data Sheet  
Issue 10/2012

**BYK USA Inc.**  
524 South Cherry Street  
P.O. Box 5670  
Wallingford, CT 06492  
USA  
Tel 203 265-2086  
Fax 203 284-9158  
  
**cs.usa@byk.com**  
**www.byk.com/additives**

ANTI-TERRA®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, DISPERBYK®, DISPERPLAST®, LACTIMON®, NANOBYK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera.  
SCONA® is a registered trademark of BYK Kometra.  
The information and data stated herein, although in no way guaranteed, are based upon tests and reports considered to be reliable and are believed to be accurate. No warranty, either expressed or implied, is made or intended. Use by a customer should be based upon their own investigations and appraisals. Any recommendation should not be construed as an invitation to use a material in infringement of patents.

This issue replaces all previous versions – Printed in the USA