

BYK-1799

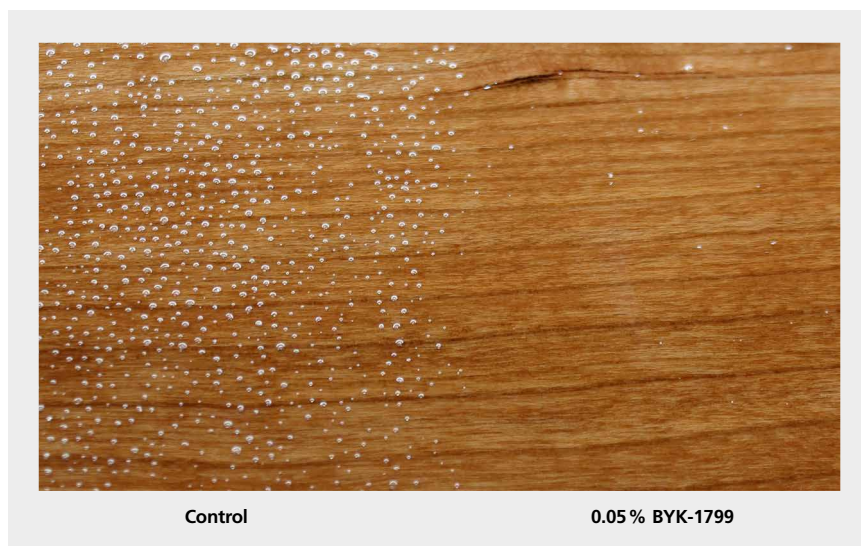
VOC-free Silicone-containing Defoamer for Solvent-borne, High-solid and Solvent-free Systems. Particularly Suitable for 100 % UV Systems.

100 % UV systems generally display a higher processing viscosity as a result of a lack of solvents. If the formulation also contains matting agents and pigments, defoaming becomes difficult. For example, to be effective at high application speeds such as during roller application, it is necessary to have a spontaneous and highly effective defoamer.

The new BYK-1799 has these properties and is effective even at an extremely low dosage. Adding BYK-1799 also effectively prevents both micro- and macrofoam.

The main fields of application are UV wood and furniture coatings, and UV printing inks. However, it also perfectly defoams solvent-borne and high solid systems.

Excellent Defoaming following Roller Application of a Wood Coating



Test system: 100 % UV-curing urethane acrylate system based on Ebecryl® 4680.

Application: Roller application

UV-curing: Mercury-vapor lamp, 120 W/cm = 1.5 J/cm², conveyor speed 5 m/min., 2 min. after application

Benefits



- Excellent, spontaneous defoaming, even under critical application conditions such as roller application
- Ideal for 100 % UV systems, solvent-borne, high-solid and solvent-free systems based on epoxy and polyurethane resins
- Prevents macro- and microfoam
- Particularly suitable for highly matted and pigmented systems and also for clear coats
- Effective – even at a very low dosage
- VOC-free, solvent-free

Technical Properties



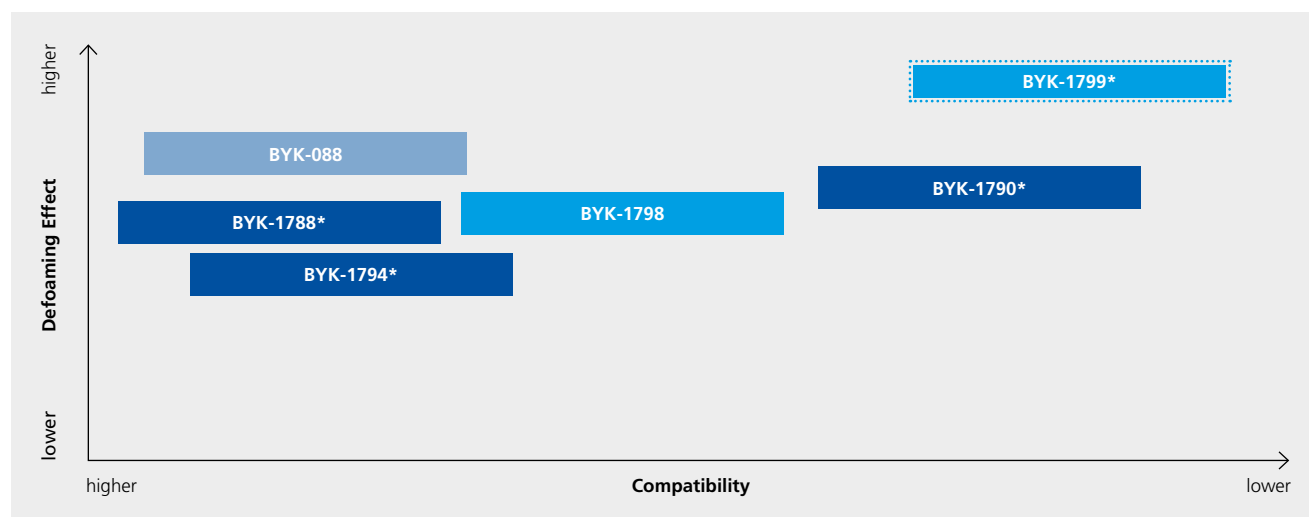
- Blend of hydrophobic particles and foam-destroying polysiloxanes
- Non-volatile matter > 98 %
- Density (20 °C): 0.99 g/cm³
- Dosage: 0.05 %–0.5 % (as supplied) based on the total formulation (in exceptional cases up to 0.8 %)

Applications



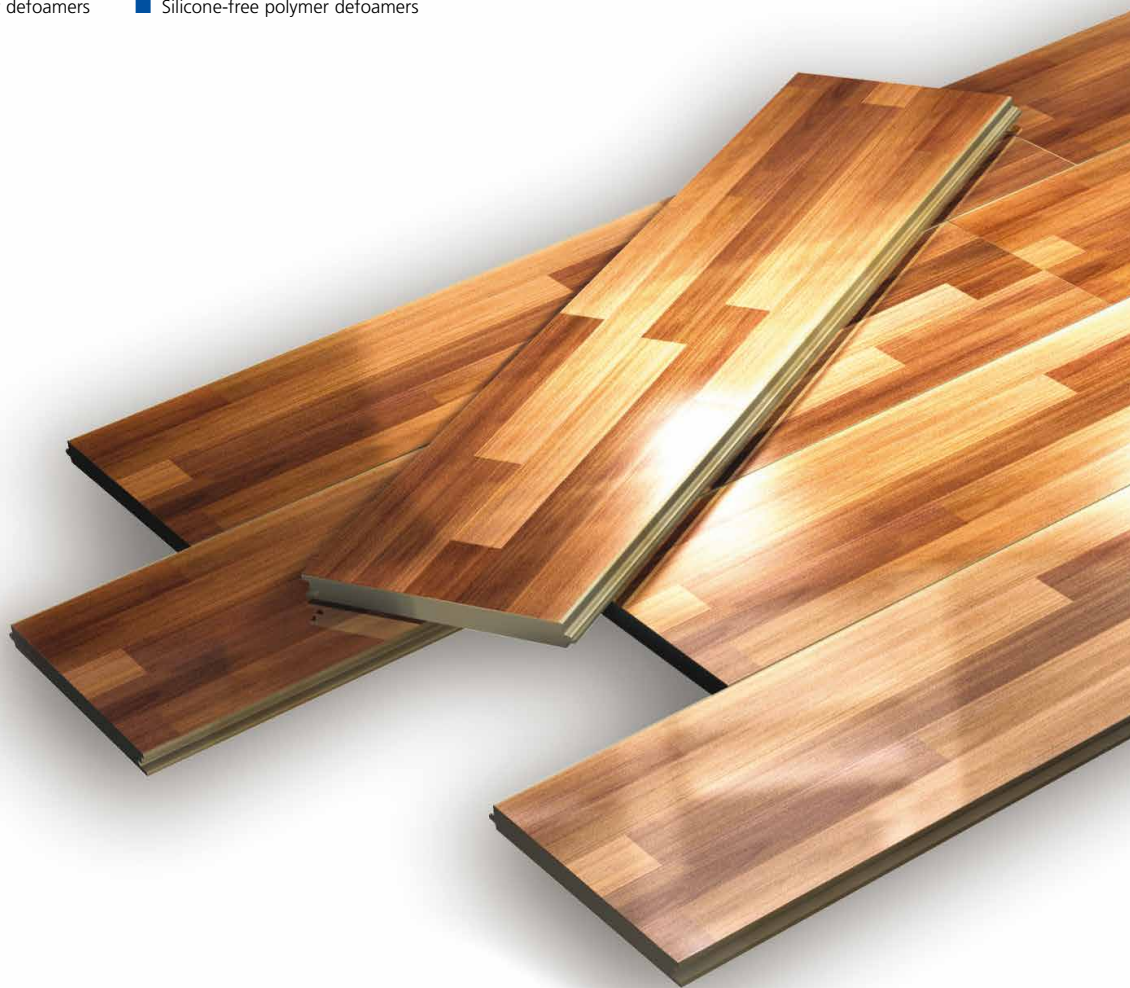
- Wood and furniture coatings
- General industrial coatings
- Printing inks
- Heavy-duty corrosion protection
- Architectural coatings

Selection of Defoamers for 100 % UV Systems



■ Silicone defoamers ■ Silicone/polymer defoamers ■ Silicone-free polymer defoamers

*100 % non-volatile matter



BYK
Additives & Instruments

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



ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAX®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, PRIEX®, PURE THIX®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany