

# BYK-1794

Emissions-free and silicone-free polymer defoamer for solvent-borne, solvent-free, high-solid, and UV systems.

## Product Data

### Composition

Polyolefin copolymer

Emissions-free

### Typical Properties

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

Density (20 °C): 0.85 g/ml  
Non-volatile matter (10 min., 150 °C): 100 %

## Applications

### Liquid Coatings

#### Special Features and Benefits

BYK-1794 is an emissions-free defoamer and air release agent in accordance with the AgBB (Committee for the Health-Related Evaluation of Building Products) and the French standard. The additive is particularly recommended for high-solids and solvent-free systems based on epoxy, PUR, polyaspartics, and UV systems. It is suitable for pigmented and non-pigmented systems, has no impact on surface properties and takes effect both during production and subsequent processing. The additive has 100 % solids and is VOC-free. BYK-1794 is used, for example, in thick layer systems such as floor coatings. BYK-1794 is highly compatible with solvent-free coatings for ballast tanks, tank interiors, etc. It is also extremely effective in 100 % polyurethane and polyaspartic acid ester systems for pipelines and concrete coatings as well as other solvent-free coating systems for high-performance protective coatings. In typical solvent-borne coil coating systems (e.g. polyester melamine or PUR), BYK-1794 is very compatible and also provides good, spontaneous defoaming. Excellent results are achieved in UV systems for wood and furniture coatings.

#### Recommended Use

Architectural coatings	■
Coil coatings	■
Protective coatings	■
Wood and furniture coatings	■

■ especially recommended

**Recommended Levels**

0.1-1 % additive (as supplied) based on the total formulation.

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

**Incorporation and Processing Instructions**

BYK-1794 can be incorporated in the millbase as well as in the letdown product. If post-added, ensure sufficient shear forces are applied.

**Ambient Curing Systems****Special Features and Benefits**

BYK-1794 is an emissions-free defoamer and air release agent in accordance with the AgBB (Committee for the Health-Related Evaluation of Building Products) and the French standard. The additive is particularly recommended for high-solids and solvent-free systems based on polyurethane. BYK-1794 is used, for example, in thick layer systems such as floor coatings. It is suitable for pigmented systems, has no impact on surface properties, and takes effect during production and subsequent processing. BYK-1794 has 100 % solids and is VOC-free.

**Recommended Levels**

0.1-1 % additive (as supplied) based on the total formulation.

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

**Incorporation and Processing Instructions**

BYK-1794 can be incorporated in the millbase as well as in the letdown product. If post-added, ensure sufficient shear forces are applied.

**Printing Inks Industry****Special Features and Benefits**

BYK-1794 is an emissions-free defoamer and air release agent. Excellent results can be achieved in pigmented UV printing inks. The additive shows no impact on surface properties or transparency, and takes effect both during production and in subsequent processing. BYK-1794 has 100 % solids and is VOC-free.

**Recommended Levels**

0.1-1 % additive (as supplied) based upon the total formulation.

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

**Incorporation and Processing Instructions**

BYK-1794 can be incorporated in the millbase as well as in the letdown product. If post-added, ensure sufficient shear forces are applied.

## Adhesives & Sealants

### Special Features and Benefits

BYK-1794 is an emissions-free defoamer and air release agent in accordance with AgBB (Committee for the Health-Related Evaluation of Building Products) and the French standard. The additive is particularly recommended for solvent-free systems based on PUR and epoxy. BYK-1794 can be used, for example, in laminating adhesives both for thin layers and thick layer systems. It is suitable for filled and unfilled systems and has no impact on surface properties or transparency. BYK-1794 has 100 % solids and is VOC-free.

### Recommended Levels

0.1-1 % additive (as supplied) based upon the total formulation.

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

### Incorporation and Processing Instructions

BYK-1794 can be incorporated easily and takes effect both during production and processing.



**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**

ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, 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.