

BYK-394

Polyacrylate-based surface additive for solvent-borne coil coatings and wood and furniture coatings. Improves leveling and enhances tape release. OH-functional.

Product Data

Composition

Solution of a polyacrylate copolymer

Typical Properties

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

Density (20 °C):	1.02 g/ml
Non-volatile matter (10 min., 150 °C):	80 %
Solvents:	Dipropylene glycol monomethyl ether
Flash point:	88 °C
OH value:	23 mg KOH/g

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Special Note

When using this additive, the surface must be sanded thoroughly prior to recoating to ensure the adhesion of the new coating layer.

Applications

Coatings Industry

Special Features and Benefits

The additive orients itself to the coating surface and is fixed in the surface via its reactive groups by reacting with the polymer matrix. BYK-394 contains primary OH groups which react with binders, such as 2K polyurethane, alkyd/melamine, polyester/melamine, acrylate/melamine and acrylate/epoxy combinations in solvent-borne systems. The non-polar groups of the BYK-394 result in outstanding tape release. The additive improves leveling and gloss. It produces a long wave effect and prevents cratering. BYK-394 has no impact on surface tension and is thermally stable.

Recommended Use

The additive is recommended for use in solvent-borne and solvent-free baking systems and 2K polyurethane coatings.

Coil coatings	■
Wood and furniture coatings	■

■ especially recommended

Recommended Levels

0.2-3 % additive (as supplied) based upon 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

The additive can be incorporated during any stage of the production process, including post-addition.



Additive Guide



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®, NANOBYK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFAX®, 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