

BYK-4513

Adhesion promoter for 2K aqueous epoxy systems to increase adhesion to metal substrates and corrosion resistance.

Product Data

Composition

Solution of a polymer with functional groups

Typical Properties

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

Amine value:	60 mg KOH/g
Density (20 °C):	1.06 g/ml
Non-volatile matter (30 min., 150 °C):	41 %
Solvents:	Dipropylene glycol monomethyl ether (DPM)
Flash point:	84 °C

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.

Applications

Coatings Industry

Special Features and Benefits

BYK-4513 is used in aqueous epoxy-based coating systems as an adhesion promoter for metal substrates. It increases the wet and dry adhesion and the mechanical resilience, and can also help to improve the corrosion resistance of the coating. The polymeric character of BYK-4513 and its attachment to the metal-coating interface also provide more flexibility to the film coating. BYK-4513 is silane free and has outstanding storage stability.

Recommended Use

Protective coatings	<input checked="" type="checkbox"/>
Industrial coatings	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

1-5 % 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

The additive can be incorporated in either the hardener or the base paint, however, compatibility and storage tests should be carried out for the respective components and in the final coating formulation. The time of addition depends on the compatibility in the coating system; it is generally recommended to incorporate the additive during the grinding phase. With good compatibility, it can also be used as a post-additive.



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

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®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYPK®, 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