

BYK-4512

Adhesion promoter for solvent-borne systems applied to metal substrates.

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:	56 mg KOH/g
Density (68 °F):	9.18 lbs/US gal
Non-volatile matter (20 min., 302 °F):	60 %
Solvents:	Methoxypropylacetate
Flash point:	109 °F

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

Liquid coatings

Special Features and Benefits

In coil coatings, BYK-4512 improves adhesion after water immersion and forming processes, for example deep-drawing, T-bend, and corrosion resistance. It is particularly well-suited for use in chromate-free primers and on metal substrates that are pre-treated in a chromate-free manner. BYK-4512 reacts with melamine resins and polyisocyanates and is cross-linked into the polymer matrix. In industrial coatings, BYK-4512 improves the adhesion of coatings, which are applied directly onto metal or glass. The additive is particularly well-suited for use in 2K systems and baking coatings.

Recommended Use

Coil Coatings	
Industrial Coatings	

 particularly recommended

Recommended Levels

1-4 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. Optimal dosage levels are determined through a series of tests. As a reference point, a dosage of 1.7 % additive in delivery form on the total formulation can be started with.

Incorporation and Processing Instructions

The additive can be incorporated at any time during paint production with moderate shear forces.

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