

BYK-C 8000

Reactive, polymeric coupling agent (adhesion promoter) to improve mechanical properties in radical curing systems. Plastic applications are polymer concrete and solid surfaces; preferably in quartz- and granite-filled resins. In solvent-borne and solvent-free coatings, the additive acts as an adhesion promoter on metal and glass.

Product Data

Composition

Solution of a reactive copolymer with functional groups

Typical Properties

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

Amine value: 15 mg KOH/g
Density (20 °C): 0.99 g/ml
Non-volatile matter (10 min., 150 °C): 18 %

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.

Storage and Transportation

To be stored and transported at a temperature below 40 °C. Moisture sensitive.

Applications

Ambient Curing Resin Systems

Special Features and Benefits

BYK-C 8000 improves the mechanical properties such as flexural strength, compressive strength and the E modulus by up to 50 %. The additive is recommended for radical curing systems such as polymer concrete, solid surfaces, preferably in quartz- and granite-filled resins.

Recommended Levels

0.1-0.3 % additive (as supplied) based upon the filler.

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 should be added to the resin shortly before the curing process. After the addition, the resin system needs to be processed within a maximum of 24 hours. The time span varies depending on the type of resin and additive quantity.

Coatings Industry**Special Features and Benefits**

In solvent-borne and solvent-free coatings, BYK-C 8000 can substantially improve adhesion to substrates such as pre-treated steel and also glass. In the tested formulations, the additive showed no negative impact on standard coating properties. The additive is recommended for reactive acrylate systems, baking coatings (e.g. acrylic/melamine) and for UV systems.

Recommended Levels

Max. 1 % additive (active substance) 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

The additive can be added to the coating at any stage of the production process whilst stirring.



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

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