

ANTI-TERRA-203

Controlled flocculating wetting and dispersing additive for solvent-borne medium-polar to low-polar thick layer systems and primers to prevent fillers and inorganic pigments from settling and to gel bentonites.

Product Data

Composition

Solution of an alkylammonium salt of a polycarboxylic acid

Percentage of renewable
raw materials: 50 %

Typical Properties

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

Amine value:	51 mg KOH/g
Acid value:	51 mg KOH/g
Density (20 °C):	0.89 g/ml
Non-volatile matter (10 min., 150 °C):	50 %
Solvents:	Solvent Naphtha
Flash point:	46 °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.

Storage and Transportation

Separation or turbidity may occur at temperatures below 5 °C. Warm to 20 °C and mix well.

Applications

Coatings Industry

Special Features and Benefits

The additive derives its benefits from the systematic, controlled flocculation of pigments. This also prevents sagging and keeps the pigments from settling as well as flooding and floating. ANTI-TERRA-203 is suitable for medium-polar to low-polar solvent-borne and solvent-free coating systems and significantly increases thixotropy. It can often improve anticorrosive properties when used in protective coating primers. ANTI-TERRA-204 is a very similar product, which is also suitable for non-polar systems.

Recommended Use

Architectural coatings	<input checked="" type="checkbox"/>
Coil coatings	<input type="checkbox"/>
Protective coating systems	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 1-2 %
Titanium dioxide/Fillers: 0.5-1 %
Bentonites: 30-50 %

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

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments.

The following suggested formulation can be used to gel bentonites:

85-87 parts (by weight) solvent
10 parts (by weight) bentonites
5-3 parts (by weight) additive

The solvent must either be an aromatic or white spirit with aromatics. If the gelling effect is not sufficient, polar solvents may be added to increase it.

Special Note

Discolorations may occur in coatings based on cellulose nitrate, chlorinated rubber, and PVC copolymers. Silicate coatings have a shortened pot life. High levels may affect pot life and curing in epoxy systems. The additive's high amine value can lead to increased viscosity in the epoxy resin.



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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