BYK-155/50

Sodium polyacrylate-based dispersing additive for pigment stabilization in aqueous emulsion paints and thinner for water-based drilling fluids.

The additive is only available on the North American market. In regions outside of NAFTA please use BYK-155/35 instead, which differs only with respect to the non-volatile content.

Product data

Composition
Solution of a sodium salt of an acrylic acid copolymer

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

Non-volatile matter (90 min, 130° C):	50 %
Solvents:	Water

Storage and transportation
The product may solidify below 5 °C. Heat to 20 °C and stir.

Applications

Coatings industry

Special features and benefits
BYK-155/50 stabilizes the pigments and fillers by electrostatic repulsion and is recommended for aqueous emulsion paints. The additive increases gloss, improves leveling, shortens dispersing time and stabilizes pigment dispersion. BYK-155/50 can be used as the only dispersing additive in most cases. It can be used for inorganic pigments and fillers.

Recommended levels
Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	1.5–8 %
Titanium dioxide:	1–2 %
Fillers:	0.4–0.8 %

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions
For optimum effect add the additive to the mill base before incorporating the pigments and fillers.

Water-based drilling fluids

Special features and benefits

- Meets industry expected performance
- Economical
- Does not require pH adjustments to function
- Quickly reduces high rheological values due to excess drill solids
- Yield point and gel strengths can be reduced without dilution
- Can reduce fluid loss and improve filter cake quality
- Minimized non-productive time (NPT) spent conditioning the drilling fluid

Recommended use

All water-based muds that will be subjected to temperatures under 177 °C.

Recommended levels

0.7–1.4 kg/m³ additive (as supplied) should be adequate for most formulations and drilling conditions.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

BYK-155/50 can be incorporated directly into the mud system. Minimal agitation is required. Pilot testing prior to use on the rig is highly recommended to avoid over treatment of the mud.

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com