

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.



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This issue replaces all previous versions.