

BYK-154

Dispersing additive for aqueous emulsion paints, emulsion adhesives, care products, construction materials, and drilling fluids.

Not available in North America

Product data

Composition

Aqueous solution of polyacrylate ammonium salt

VOC-free (< 1500 ppm)

Typical properties

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

Density (20 °C):	1.16 g/cm ³
Non-volatile matter (10 min, 150 °C):	42 %
Solvent:	water

Storage and transportation

Product shelf life in unopened original packaging: 60 months
 At temperatures below 5 °C the product may become solid. Warm to 20 °C and stir.

Applications

Coatings industry

Special features and benefits

BYK-154 stabilizes pigments and fillers by electrostatic repulsion and is recommended for aqueous emulsion paints. The additive increases gloss, reduces viscosity and improves storage stability. Combined with a wetting agent or classic wetting and dispersing additive, the colorant acceptance is improved when tinting with universal colorants. BYK-154 does not stabilize foam.

Recommended use

Architectural coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

Amount of additive (as supplied) based on:

Inorganic pigments: 2-10 %
Titanium dioxide: 1-2 %
Fillers: 0.5-1 %

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 performance, the additive must be incorporated into the mill base.

Adhesives and sealants**Special features and benefits**

BYK-154 improves the dispersion quality of fillers and pigments and is recommended for all aqueous emulsion adhesives and sealants. The additive stabilizes the fillers and pigments by electrostatic repulsion, ensures good storage stability, and reduces viscosity.

Recommended levels

Amount of additive (as supplied) based on:

Fillers: 0.5-1 %
Inorganic pigments: 2-10 %
Titanium dioxide: 1.5-2 %

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 performance, the additive must be incorporated before the addition of fillers or pigments.

Home care and I&I**Special features and benefits**

BYK-154 stabilizes abrasives and other insoluble solids by electrostatic repulsion, and is recommended for all aqueous care products that contain solids. The additive lowers viscosity and ensures a good storage stability of the systems.

Recommended levels

Amount of additive (as supplied) based on:

Inorganic pigments: 2-10 %
Titanium dioxide: 1.5-2 %
Fillers: 0.5-1 %

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 performance, the additive should be added before incorporating the solids.

Construction chemicals

Special features and benefits

BYK-154 causes very rapid wetting and dispersion of the finest fillers and pigments in aqueous construction material formulations. The stabilizing effect of BYK-154 reduces the tendency of sedimentation in flowable systems such as SLU and contributes to the formation of a homogeneous structure.

In pigmented 3-pack PU formulations, the color intensity is significantly increased and the appearance of the surface is considerably improved.

Recommended levels

Amount of additive (as supplied) based on the total formulation:

SLU: 0.05–0.1 %

3-pack PU: 0.1–0.3 %

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 performance, the additive should be added before the solids are incorporated into or mixed with the mixing water.

Oil and gas industry

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 NPT (non-productive time) spent conditioning the drilling fluid

Recommended use

All water-based muds that will be subjected to temperatures under 175 °C.

Recommended levels

0.70–1.40 kg/m³ additions 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-154 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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