

AFCONA – 4401



Chemical Composition

Modified polyacrylic polymer

Product general description

High molecular weight polymeric dispersant for deflocculation of all type of pigments

Product Properties

AFCONA-4401 is an effective polymeric dispersant for stabilizing inorganic and organic pigments. It has very good stability performance, through effective steric hindrance, on all type of pigments.

This results in:

- improved gloss and DOI
- reduced flooding problems
- high colour strength

AFCONA-4401 shows a wide compatibility, from low polar to high polar systems, including nitrocellulose and Thermoplastic Acrylic. However for those systems we have better products like AFCONA – 4200 and AFCONA – 4000.

Care must be taken with AFCONA-4401 as it has a tendency to yellowing or gelling when used in combination with chlorinated polymers and/or epoxies.

AFCONA-4401 gives high thixotropy milling pastes, which also results in higher milling viscosity.

AFCONA-4401 is used in all kinds of high quality solvent-based industrial coatings including automotive topcoats. The best performance is given in the following resin systems:

- Oil free Polyesters
- Thermosetting Acrylics
- Thermoplastic acrylics
- Nitrocellulose combinations
- CAB mixtures

Note: AFCONA – 4401 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	50 – 54%
Solvents	Butylacetate / Sec. butanol
Density at 20 °C	0.94 – 0.96 g/cm ³
Amine value	45 – 60 mg KOH/g
Flashpoint	24°C
Colour	max. 4

Addition and dosage

Calculation method for the required amount of active ingredient on pigment:

TiO ₂	: 2 - 3%
Other inorganic pigments	: 2 - 4%
Organic pigments	: 20 - 40%
Carbon blacks	: 20 - 60%

Incorporation

AFCONA-4401 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4401 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

25 kg and 190 kg non-returnable containers.