



AFCONA – 4047E

Chemical Composition

Modified polyurethane polymer with caprolactone

Product general description

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

Product Properties

AFCONA-4047E is a highly effective polymeric dispersant for stabilizing inorganic and organic pigments as well as carbon blacks. 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
- higher colour strength
- lower viscosity

AFCONA – 4047E has below special properties and recommended in below systems:

- 1) AFCONA – 4047E is compatible with almost all solvent-based resins with the exception of some thermoplastic acrylics.
- 2) Due to the excellent pigment stabilizing performance, AFCONA – 4047E is extremely suitable for high quality coatings, such as OEM and refinish, can coating, coil coatings and other high quality coatings. However, it also can be used in epoxy, UPE, Polyurethane and other resin systems.
- 3) The higher molecular weight of AFCONA-4047E compared to AFCONA-4046 gives AFCONA – 4047E stronger deflocculation results with organic pigments and carbon blacks. AFCONA – 4047E also gives lower milling viscosity comparing to AFCONA-4046.
- 4) AFCONA – 4047E can be used as effective dispersant for universal pigment concentrates preparation. For these we recommended a combination with AFCONA – 1102.

Note: AFCONA – 4047E will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	34 – 36%
Solvents	Butylacetate / Methoxy Propyl Acetate/ Isobutanol
Density at 20 °C	0.95 – 0.97 g/cm ³
Amine value	10 - 20 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-4047E should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4047E 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