

AFCONA – 4077



Chemical Composition

Modified polyurethane polymer

Product general description

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

Product Properties

AFCONA-4077 is a result of an innovative concept of polyurethane dispersants. This innovative technology is based on an own new developed intermediate monomer and own new developed anchoring groups.

AFCONA – 4077 is an improved version of AFCONA – 4046 and AFCONA - 4050. AFCONA-4077 could be used as a direct substitute for AFCONA-4046 and AFCONA-4050.

Comparing to AFCONA – 4046 and AFCONA - 4050, it has below special and improved properties:

- 1) AFCONA – 4077 has better performance in dispersing carbon blacks and organic pigments.
- 2) AFCONA – 4077 will not cause crystallization at low temperature. Even at 15° C below zero (-15° C) only slight haziness will be observed.
- 3) Better compatibility with CAB, thermoplastic acrylics and NC combinations.
- 4) Overall pigment stability and performance is better in terms of tinting strength and color brightness.
- 5) A direct substitute to AFCONA – 4046 and AFCONA - 4050

Note:

- 1) AFCONA – 4077 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	44 - 46%
Solvents	Butylacetate/Methoxy Propyl Acetate/ Isobutanol
Density at 20 °C	0.94 – 0.96g/cm ³
Amine value	15 - 25 mg KOH/g
Flashpoint	24°C
Colour	max.6

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-4077 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4077 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