

AFCONA-4078



Chemical Composition

Modified polyurethane polymer solution

Product general description

Wetting and dispersing agent for various pigments.

Product Properties

AFCONA-4078 is a highly effective polymeric dispersant for stabilizing inorganic and organic pigments as well as carbon blacks. Through effective steric hindrance, it provides very good stability for all types of pigments.

AFCONA-4078 offers the following advantages:

- Improved gloss and DOI, reduced haziness
- Prevention of flooding problems
- Higher colour strength
- Lower viscosity

The characteristics and recommended systems for AFCONA-4078 are as follows:

- 1) AFCONA-4078 has good compatibility with most solvent-based resin systems, especially for medium to high polarity systems, such as various resins containing hydroxyl groups.
- 2) Due to its excellent stability for pigments, AFCONA-4078 is particularly recommended for high-quality coating applications, such as automotive OEM coatings, refinish paints, can coatings and coil coatings. It can also be applied in epoxy, unsaturated polyester, polyurethane, fluorocarbon and other resin systems.
- 3) AFCONA-4078 can effectively reduce the viscosity of pastes and concentrates, especially in medium-to-high polar systems. This property is more evident when dispersing carbon black.
- 4) AFCONA-4078 can also be used as a dispersant in the preparation of universal pigment concentrates. We recommend combining it with the universal resin AFCONA-1102.

Note: AFCONA-4078 may turn slightly hazy at or below 5°C, or become thixotropic after long-term cold storage. It would recover to the standard appearance after mild shear at room temperature. That will not affect its quality or use.

Product Specification

Non-volatile matter	76 - 80% (150°C, 0.5h)
Solvent	Butyl Acetate
Density	1.013 - 1.053 g/cm ³ (20°C)
Amine Value	7 - 15 mg KOH/g
Gardner color	Max.6
Flash point	29°C
Appearance	Yellow transparent liquid (25°C)

Addition and dosage

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

TiO ₂	: 2-3%
Other inorganic pigments	: 2-10%
Organic pigments	: 20-40%
Carbon blacks	: 20-60%

Incorporation

AFCONA-4078 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4078 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

25kg and 200kg non-returnable containers

For product safety information, please refer to the SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.