

AFCONA - 4078



Chemical Composition

Modified polyurethane polymer

Product general description

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

Product Properties:

AFCONA-4078 is a high efficient high molecular weight dispersant. It has excellent stability for inorganic, organic pigments and carbon blacks. Benefit of its steric-hindrance effect, it can stabilize all types of pigments.

AFCONA - 4078 has below special and advantages:

- Improve gloss and reduce haziness(improve DOI);
- Prevent flooding;
- Stronger color acceptance;
- Lower viscosity;

AFCONA-4078 has below properties and recommended to below applications:

- 1) According to the excellent stability to pigments, AFCONA-4078 is specially recommended to the coatings where high quality is required. Such as OEM, Refinishing paints, Can coatings and coil paints. It is also applied to epoxy, polyurethanes, UPE, fluoro-carbon resins and etc.
- 2) AFCONA-4078 has good compatibility with most of hydroxy polyacrylate resins, especially middle-high polar systems, such as all kinds of resins with hydroxyl
- 3) AFCONA-4078 can effectively decrease the viscosity of pastes and concentrates, especially in middle to high polar systems. This property will be more obviously when dispersing carbon blacks.
- 4) AFCONA - 4078 also can be used as dispersant in preparation of universal pigment concentrates. We recommend a combination with the universal resin AFCONA - 1102.

Note: AFCONA - 4078 will become viscous or thixotropy below 5°C. It will be turn back to liquid when warm up, or shear force, and this will not influence the dispersing property and quality of final product.

Product Specification

Active ingredients	75 - 78%
Solvents	Butylacetate
Amine Value	7 – 11 mgKOH/g
Flash point	28°C
Colour	Max.6
Appearance	Clear to slightl hazy, yellow liquid

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 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

25kg and 190 kg non-returnable containers

AFCONA Polymers Co., Ltd.
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This version replaces all previous ones.