AFCONA - 4530

Chemical Composition
Modified polyurethane polymer.

Product general description
High molecular weight, pH-independent polymeric dispersant for deflocculation of pigments in water-based decorative as well as industrial paints.

Product Properties:
AFCONA-4530 is a polymeric dispersant for stabilizing inorganic and organic pigments in water-based systems. Through effective steric hindrance and electrostatic repulsion an excellent stability performance on all type of pigments is given.

AFCONA-4530 is an innovative polyurethane dispersant for water-based coating. Compared to the common polyacrylic types, it has below better performances:

1) Better color strength
2) Better pigment stability
3) Better color development
4) Less foam formation
5) pH independent
6) VOC free

AFCONA-4530 recommended for manufacturing resin free pigment concentrate for decorative as well as for industrial paints. It can be combined with AFCONA – 6225 for better cost saving without compromising any dispersion quality. Please refer to the application section for guide formulations.

Note: AFCONA – 4530 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product Specification

Non-volatile matter	38 -42% (150°C,0.5h)
Solvent	Water
Amine value	12 – 20 mg KOH/g
Flash point	＞100°C
Gardner color	Max.6
Appearance	Clear to hazy, slightly yellowish liquid (25°C)

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

TiO2	: 2 - 3%
Other inorganic pigments	: 2 - 4%
Organic pigments	: 20 - 40%
Carbon blacks	: 20 - 60%

Incorporation
AFCONA-4530 should be incorporated in the mill base before adding the pigments.

Storage
AFCONA-4530 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 3 years from the date of manufacture. The expiry date is indicated on the container.

Packaging
30kg and 200kg non-returnable containers