

AFCONA - 4599



Chemical Composition

High molecular weight modified polyacrylate compound.

Product general description

High molecular weight polymeric dispersant with strong viscosity reduction for water-based industrial paint.

Product Properties:

AFCONA – 4599 is a wetting and dispersing agent with special designed high molecular weight polyacrylate polymer. It makes the organic, inorganic pigments and carbon blacks more easily to be dispersed and more stable.

Because of the special designed structure, AFCONA – 4599 has better water solubility but less influence to coating film of water resistance. And it is environmental friendly, without any co-solvent. It is very suit for low VOC water-based coating systems.

Hence, it is very effective in below properties for water based systems:

- Much lower viscosities.
- High color strength.
- Better transparency of paint film.
- No flooding and floating problems.
- Little or no water-resistance influence.

Product Specification

Non-volatile matter	39-43% (120°C,0.5h)
Solvent	Water
Density	1.02 – 1.06 g/cm ³ (20°C)
The refractive index	1.390 – 1.410 (25°C)
Acid value	4 – 10 mg KOH/g
Amine value	8 – 14 mg KOH/g
Flash point	>100°C
Appearance	Transparent, brownish liquid (25°C)

Addition and dosage

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

TiO ₂	: 2 - 5%
Other inorganic pigments	: 5 - 10%
Organic pigments	: 20 - 60%
Carbon blacks	: 40 - 80%

Incorporation

AFCONA-4599 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4599 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 200 kg non-returnable plastic containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.