

AFCONA – 4474



Chemical Composition

Acrylate based polymeric Dispersant

Product general description

This is an acid based polymeric dispersant for coil and can coating or any other acid curing systems.

Product Properties

AFCONA – 4474 is a very strong dispersant especially for TiO₂ dispersion in oil free polyester melamine systems where this combination are commonly used in coil, can coating as well as industrial baking paint.

AFCONA - 4474 is particularly suitable for the following applications:

- 1) In coil and can coating application, using AFCONA – 4474 in TiO₂ dispersion will increase the whiteness as well as the hiding of coating. It will also reduce the system viscosity for a higher pigment loading where this is always needed in these systems.
- 2) Due to the pigment affinity group is based on acid; it is also a good dispersant for transparent iron oxide and other inorganic pigments.
- 3) It also can be used as an effective dispersant for other acid curing systems where dispersant contain amine value will always affect the curing time of the systems.
- 4) Baking paint that based on polyester system.
- 5) AFCONA 4474 also good for UPE & Epoxy systems due to it only based on acid functional pigment affinity group. Common dispersant always contain amine value where it always affects the self-life and pot-life of these systems.

Product specification

Active Angredient	50 – 52%
Solvent	Methoxy Propyl Acetate / Butyl Acetate
Density at 20 °C	1.005 - 1.035 g/cm ³
Reflective index	1.435 – 1.455
Acid value	7 – 14 mg KOH/g
Flashpoint	27 °C
Appearance	Yellowish liquid

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-4474 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA – 4474 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