

# AFCONA - 1101



## Chemical Composition

Modified Polyacrylate polymer

## Product general description

Universal dispersing resin for preparation of universal pigment concentrate

## Product Properties

AFCONA – 1101 designed to use as universal dispersing resin for the preparation of universal pigment concentrates.

To formulate stable and widely compatible pigment concentrates AFCONA – 1101 must be combined with any product from AFCONA 4000 series, AFCONA high molecular weight dispersants. The stability and deflocculation ability of the pigment concentrate is highly depending on the selected dispersant. On the other hand, the compatibility of the pigment concentrate depends not only on the dispersant, but also on the universal resin chosen in the formulation.

AFCONA – 1101 is compatible with most of the resin systems like polyurethane, alkyd melamine, acrylic melamine, polyester melamine (butylated and HMMM grade), acid curing etc. The known resin systems that not complete compatible are epoxy systems as well as air-drying alkyd systems where white spirit, LAWS and aliphatic hydrocarbon solvents used in large amounts.

The pigment concentrates prepared through AFCONA – 1101 have below special properties:

- 1) Very low concentrate viscosity
- 2) Help to provide better pigment stability.
- 3) Free flowing and suitable for automatic tinting system
- 4) Wide compatibility
- 5) Contain primary OH groups, which can cross-link in systems like PU and baking paints. Thus, it will not act like a hard resin or plasticizer.

As long as it has good compatibility with the resin systems, AFCONA – 1101 can reduce mill base viscosity. As all paint chemists understand, reducing mill base viscosity means increase of mill base grinding efficiency.

## Product specification

Active ingredients	59 - 63%
Solvent	Butyl Acetate / Methoxy Propyl Acetate
Density at 20 °C	1.01 - 1.04 g/cm <sup>3</sup>
Flashpoint	24 °C
Colour	max. 4

## Addition and dosage

### For Pigment concentrate:

Inorganic pigments	: 4 - 5 times of solid dispersant
Organic pigment	: 3 - 5 times of solid dispersant

### For mill based viscosity reduction:

1-2% based on total mill base formulation.

## Incorporation

AFCONA – 1101 is recommended to add in before milling.

## Storage

AFCONA – 1101 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