

# AFCONA-3772



## Chemical Composition

Fluorocarbon modified polyacrylate polymer.

## Product general description

Leveling and surface tension reduction agent for water-based and solvent-based coatings.

## Product Properties

AFCONA-3772 is an acrylic modified fluorocarbon. It contains carboxylic acid groups, which increase the polarity of the polymer to give good compatibility with most common resins used in coatings.

For use in aqueous coatings, AFCONA-3772 must be neutralized with a suitable amine. Complete water solubility will be obtained by addition of 9% triethylamine or 12% ammonia solution (25% concentration).

AFCONA-3772 has the following advantages:

- 1) No in-can haziness.
- 2) Anti-flooding and anti-floating properties.
- 3) Improves leveling.
- 4) Prevents cratering and orange-peel.
- 5) Helps substrate wetting.

In solvent-based coatings, other non-silicone leveling agents like AFCONA-3770, AFCONA-3670 and AFCONA-3777 give better performance than AFCONA-3772. Due to its good compatibility, AFCONA-3772 is recommended mainly for high gloss clear coatings and as anti-inner bubble aid for PU coatings.

Like AFCONA-3730, AFCONA-3772 also has very good compatibility with most resin systems. However, AFCONA-3730 is much better in leveling, while AFCONA-3772 is better in anti-crater and substrate wetting. In clear coatings, to obtain all the mentioned performances, we recommend combining these two additives together. For pigmented, matt and primer systems, we have other products like AFCONA-3670, AFCONA-3770 etc that can fulfill all requirements.

## Product Specification

Non-volatile matter	59 - 61%(150°C,0.5h)
Solvent	Sec-butanol
Density	0.94 - 0.96 g/cm <sup>3</sup> (20°C)
Acid value	58 - 68 mgKOH/g
Gardner color	Max.3
Flash point	33°C
Appearance	Transparent to slightly yellowish liquid(25°C)

## Addition and dosage

0.30-2.00% on total formulation. Under normal conditions, the dosage is 0.30-0.70% based on total formulation.

## Incorporation

AFCONA-3772 should be incorporated at the end of the batch preparation.

## Storage

AFCONA-3772 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

## Packaging

25kg and 190 kg non-returnable containers

**For product safety information: please refer to the product SDS.**

AFCONA ADDITIVES  
Web Site : [www.afcona.com](http://www.afcona.com)

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This version replaces all previous ones.