

# PAT-ADD FL 9

## Product Data Sheet

Rev 01

April 2018



### Product Features

PAT-ADD FL 9 is a liquid flow and anti-cratering additive for industrial solvent-borne coatings and inks; the product is free of silicone and fluorine.

PAT-ADD FL 9 contributes to the formation of smooth films, improved appearance, free of imperfections, such as pinholes, orange peel or craters.

#### **Main benefits are:**

- Highly effective flow and leveling agent with some defoaming activity
- Reduced risk of orange peel, craters, pin-holes, and waviness
- Enables formation of smooth film surfaces with high distinctness of image (DOI)
- High transparency in lacquers and clears
- Active solids are thermally stable
- Effective in a wide diversity of paint systems, incl. 2-pack-, stoving-enamels, air-drying- industrial paints based on EP, Acrylics, TPA, NC, PE.

### Physical Characteristics:

<b>Appearance</b>	:	Clear colorless to Yellow Liquid
<b>Viscosity @ 25°C</b>	:	< 100 cPs
<b>Specific gravity @ 25°C, approx</b>	:	0.930 – 0.970
<b>Composition</b>	:	Solution of Polyacrylate
<b>%Solids content (120°C/1hr)</b>	:	45.0 ± 3.0%
<b>Solvent</b>	:	butyl acetate
<b>Solubility (1% solution)</b>	:	Soluble in butyl acetate, methoxy propyl acetate, xylene, White spirit

“Physical parameters indicated here in product data sheet are typical properties and not specification limits or range.”

### Properties:

PAT-ADD FL 9 is a very efficient film surface tension modifier.

The mechanism is migration of PAT-ADD FL 9 to the applied film surface. This migration and surface concentration of the additive provides two reasons for improved film surface formation:

- a) Improving flow at the top-layer of the drying film through adjustment of viscosity (contributing to optimal rheological behavior)
- b) Equalizing surface tension variations across the paint film reducing the risk defects and imperfections.

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PAT-ADD FL 9 exhibits high efficiency, preventing orange peel, craters, pinholes, Bénard cells and poor substrate coverage.

PAT-ADD FL 9 is suitable for pigmented as well as clear coating systems and may be used alone or in conjunction with strong film surface tension reducing levelling agents, such as Pat-Add LE 1010 or LE 1020 when additional film surface tension reduction is required.

### Dosage & Addition

The optimal amount of PAT-ADD FL 9 is system and application related.

The product is best added during the let-down stage of manufacturing.

PAT-ADD FL 9 is typically used between levels of 0.4 to 2.0% on the total weight of formulation. It is highly recommended to evaluate performance and compatibility empirically, applying close-to-practice test conditions.

The optimum concentration to be used depends on the individual formulation and conditions.

### End Use Application

PAT-ADD FL 9 is effective in a wide range of paint formulations, incl. 2K, Stoving enamels, Can coating, air-dry industrial paints based on EP, Acrylics, TPA, NC, PE etc.

### Shelf life

The product has shelf life of 24 months from the date of manufacturing; packed in unopened original containers as shipped by Patcham when stored in frost free warehouse.

### Storage, transportation, safety and Handling

For information on handling, storage and safety please refer to the information from the Material Safety Data Sheet (SDS).

### Packing size

Drum: - 190.0 kgs, Can: -25.0 kgs.

#### *Disclaimer:*

*While every effort is made to provide accurate and complete test results for The PATCHAM ADDITIVES, various data may vary depending upon different raw materials, test procedures and test conditions. The accuracy, reliability, or totality of the results are not guaranteed or warranted in any way. PATCHAM FZC and its representatives disclaim liability of any kind whatsoever, including liability for quality, performance and fitness for a particular purpose arising out of the use, or inability to use the test results.*