



ZAHRA CHEMICALS
Consistent Quality Solutions

New Star FL

New Star FL is a solvent based printing ink, designed for flexographic printing on treated polyolefin film. New Star F can also be used for reverse printing.

New Star FL is based on high quality nitrocellulose and selected binders.

New Star FL Series is available in white color and wide range of colors.

New Star FL has good printing properties when printing halftone as well as full tone.

New Star FL series are free off any additives or fillers which affect Anilox and Cyril in case of Flexography printing machine.

Main Characteristics:

- Highly transparent.
- Good adhesion properties.
- Low solvent retention.
- Good printability.
- High water resistance.
- High gloss level.
- Suitable for reverse printing.

Recommend Surface:

Most treated Polyolefin films, e.g. OPP , LDPE, LLDPE and Cellophane.

Reducer Solvent:

- Ethyl Acetate or a mixture of 40% Ethyl Acetate : 60% Isopropyl Alcohol.
- For slow drying use 10% of Methoxy Propanol added to the reducer solvent.

Viscosity Adjustment:

Viscosity should be measured after stirring the ink in the printing machine; printing viscosity is 20-25 sec./Ford Cup 4 at 25 °C.

Information on processing:

- **New Star FL** inks may be used at press speed of 50 – 200 m/min using the appropriate reducer , a key temperature of 65 – 70 °C (web) is normally sufficient to achieve adhesion to heat sensitive Polyolefin films and this temperature may be varied according to substrates, press speed and press conditions.
- **New Star FL** inks can be laminated and the bond strength depends on the type of substrate, the adhesive and application condition.
- To get the best result of lamination you should add 3% of Catalyst AD75.
- In case of surface printing you should add 3% of Anti-scratch100 and 3 % of Catalyst AD75 to the liquid ink before printing process.



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Storage:

New Star F may not be suited to extended exposure to direct sun light, and should be stored in tightly closed containers in door at room temperature.

We recommend using **New Star FL** within one year of the manufacturing date which printed on the label.

Package:

New Star FL is delivered in the following standard package sizes:

- White color 30 kg
- Other colors 25 kg

Cleaning:

The reducer solvent can be used for cleaning.

Technical Customer Service:

Zahra Chemicals offers service including color matching , problem solving and trouble shooting, we also offer the development of complete solutions for various applications.

Technical Specification:

property	Unit
• Viscosity (ASTM D1200 Ford cup 4 at 25°C)	35 – 60 sec. depend on the color
• Density (ASTM D1475)	0.8 – 1.0 g/cm ³ all colors 1.4 g/cm ³ white color
• Fineness (ASTM D1210)	Off Gauge less than 3 µm
• Light fastness(ASTM D3424-01)	5 – 8 depend on the color and the customer needs.
• Adhesion (ASTM D3359-02)	100 %
• Rub/Scratch (after 24 hr.)	Very good

for special requirements e.g. soap , alkali , acid and freeze resistance , light fastness.....etc

Please contact us.

The above information is given in good faith; however this information can be changed without notice. We cannot accept responsibility for any operation not under our control. New applications and end uses should always be checked with Zahra Chemical technical personnel. Zahra Chemical does not warrant that use of any of its products is appropriate for all applications.