



## **New Star FL Series**

**New Star FL Series** is a solvent based printing ink, designed for Flexographic printing on treated polyolefin film.

**New Star FL Series** designed to be used for lamination.

**New Star FL Series** inks Are Based on high quality binders and fine pigments consistent for Flexo process.

**New Star FL Series** considered as a one of our improved product portfolio that matching high speed machine. For low speed machine, a small qty of retarder should be added.

**New Star FL Series Considered as a safety ink for machine anilox & cyrel.**

**New Star FL Series.**

Good adhesion properties.

- Low solvent retention.
- Good printability.
- High gloss level.
- Suitable for reverse printing.
- Very Good transparency.
- Excellent to safe Flexo plate & Machine Anilox.

### **Recommended surface:**

**New Star FL Series** ink suitable to be applied on PET (chemically treated), AL foil (using Primer), Paper and most treated Polyolefin films, e.g. OPP, LDPE, LLDPE and Cellophane.

For Polyethylene and Polypropylene film the treatment should be at least 38 dynes per / cm for good adhesion and optimum resistance properties.

### **Reducer solvent:**

**New Star FL Series** inks can be diluted using Isopropanol, Methoxy propanol or Ethoxy Propanol.

For slow drying with low speed you can increase retarder ratio according to your requested drying time.

- Suggested ratio as following.

70 % Isopropanol + 20 % methoxy propanol+ 10 % Ethyl Acetate.

### **Viscosity adjustment:**

Viscosity should be measured after stirring the ink in the printing machine; printing viscosity is 17-18 sec/ Ford cup 4 at 25 °C.

### **Reducer varnish:**

**New Star FL Series** inks can be reduced by a reducing varnish (New Tone Varnish) to the desired tone.



### **Information on processing:**

**New Star FL Series** inks may be used at press speed of 150 – 350 m/min using the appropriate reducer.

**New Star FL Series** inks can be laminated and the bond strength depends on the type of substrate, the adhesive and application condition.

### **Storage:**

Store inks in tightly closed containers in a cool and dark place avoiding direct sunshine

We recommend using **New Star FL Series** within one year of the manufacturing printed date on the attached sticker.

### **Pack sizes:**

**New Star FL Series** could be delivered in several pack sizes.

### **Cleaning:**

The reducer solvent can be used for cleaning (Ethyl acetate recommended).

But for cyrel or plate, a mixer of solvent should be used to avoid cyrel damage.

### **Technical Specification:**

Property	Unit
• Viscosity (ASTM D1200) Ford cup 4 at 25°C	29 +/- 3 sec.
• Density (ASTM D1475 )	0.8 to 1.3 g/cm <sup>3</sup>
• Adhesion	Good According to 610 3M Tape Test
• Fineness (ASTM D1210)	Off Gauge less than 5 µm
• Non Volatile	27 +/- 2

For special requirements e.g. soap, alkali, acid and freeze resistance, light fastness or any other requirements.

Please don't hesitate to Contact us.