

# 300 Series UV/ LED Flexo

300 Series flexo inks are designed for use with all common flexo substrates. Fujifilm 300 Series inks offer the ability to cure with either traditional UV or LED lights with the same ink. The 300 Series offers superb dot reproduction, maintains crisp print definition, sharp copy and clean reverses without the gain typical of water or solvent based flexo inks.

The 300 Series inks also have good flow and leveling properties and a high gloss level with excellent intercoat adhesion, trapping properties and balanced cure rates.

The 300 Series Last Down White and Last Down Clear are designed to have optimal coefficient of friction for seaming and container application processes in shrink applications. 300 Series has been designed to shrink to the maximum percentages of films available on the market today.

**High gloss LED/UV ink**  
for flexographic  
printing of paper,  
film and shrink  
substrates

## 300 Series Key Features:

- Ultra low viscosity
- Fast cure
- Low odor
- High color density
- Superb dot reproduction
- Suitable for multiple substrates including paper, film, and shrink substrates

- Excellent intercoat adhesion
- High gloss finish
- Hi slip for bottle application
- High abrasion resistance
- No foaming on press applications

## Media Type

- Paper Stock
- Supported film
- Unsupported film
- Shrink film



## PRINTING RECOMMENDATIONS

300 Series inks were developed to be used with the finest anilox roll cell counts available to maximize print quality and improve ink mileage. Line colors were designed to be run on anilox rolls from 300 cells per inch and up. Process colors can be successfully printed with aniloxes up to 1500 cells per inch. Increased color strength can be achieved with the use of a higher BCM volume. 300 Series Inks are compatible with all plates designed to work with UV based inks. 300-LDW (last down white) can be run as high as 9 bcm. Higher opacities can be achieved with multiple hits of white. Either the 300-LDW or 300-LDC must be printed on the final print station to make possible the post printing processes. 300 Series inks are designed to print and cure at speeds up to 500 fpm. When printing on uncoated and coated paper stock, it is recommended to print in excess of 250 fpm.

All products should be shaken (mixed) prior to use

### EXTENDER

The 300 Series Inks can be extended with 300-MX Mixing Clear or 300-MMX Metallic Mixing Clear to reduce color strength if a lower bcm alternative is not available.

### CURING

Excellent cure and adhesion are usually attained immediately upon curing; however, maximum adhesion, chemical and mar resistance may not be attained until 24 hours after curing. LED inks can be affected by stray UV light in and around a printing facility. Be aware of skylights, windows and overhead lights curing the ink. Light filters are recommended. Keep ink containers covered when not in use. 300 Series Inks were designed in conjunction with the Illumina COLDCURE system for optimal curing. The 300 Series will cure properly under most high powered LED lamps that output 395nm wavelength.

### WASH UP

Anilox rolls can be washed up with Xtend Press Wash and Xtend products should be rinsed off with water before using anilox. Xtend ink Degradents should be rinsed out with water before reusing the anilox. Doctor Blades, Ink Pumps and Rollers can also be cleaned according to the following diagram.

### PRE-PRODUCTION TESTS

300 Series Inks have been formulated to adhere to most top coated or corona treated plastic materials with surface tension levels of 38-40 dyne/cm or higher. It is strongly recommended that all substrates be tested before use, as supposedly similar substrates can vary between manufactures, and even between different rolls and lots from the same manufacturer.

	Anilox, Doctor Blades, Ink Pans	Rollers
Xtend XPW-800 Roller Wash	✓	✓
Xtend XPW-105 Press Wash	✓	Do not use

END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION.

### SPECIAL COLOR MATCHES

Special colors can be supplied against prints, wet ink, Pantone®\* numbers, or other Fujifilm standard colors. A database of suggested formulas to be used with 300 to match the Pantone Guides can be obtained from your Fujifilm sales representative. A 300-MMX mixing clear is also available for matching of metallic. Shelf life will be dependent on actual metallic used and its concentration.

### EXTENDED LIFE PIGMENT

300 Series inks are formulated with standard and fade resistant pigments. See Blue Wool ratings in the item list below.

### FLUORESCENTS

Anilox recommendation is 200-300 line with 5-8 bcm to approximate Pantone guide density. Pretest adhesion on substrates as fluorescent adhesion characteristics vary from standard colors. 6 month shelf life is recommended.

### STORAGE

Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the ink tray should be disposed of properly. Inks and additives should not be stored in direct sunlight or extreme temperature. Refer to Safety Data Sheet (SDS) for materials and conditions to be avoided.

In the interest of maximum shelf life, storage temperatures should be between 50°F (10°C) and 77°F (25°C). When stored under these conditions the maximum shelf life is shown by the use by dates, which are clearly marked on all ink containers.

### SAFETY AND HANDLING

Refer to SDS for safety, handling, and waste disposal information.

NOTE: For plates, please see your plate manufacturers' recommendation for UV/LED inks.

**300 SERIES STANDARD ITEM LIST**

BW is the blue wool measurement of lightfastness of pigment

**Standard Color Range**

- ▶ 300-021 Orange (BW 6-7)
- ▶ 300-032 Red (BW 6-7)
- ▶ 300-064 Process Yellow (BW 5)
- ▶ 300-127 Violet (BW 8)
- ▶ 300-155 Rubine (BW 5)
- ▶ 300-160 Rhodamine (BW 5)
- ▶ 300-175 Purple (BW 5)
- ▶ 300-180 Warm Red (BW 6-7)
- ▶ 300-190 Process Blue (BW 8)
- ▶ 300-205 Reflex Blue (BW 3)
- ▶ 300-325 Green (BW 7)
- ▶ 300-301 Line Black (BW 8)
- ▶ 300-311 Opaque White (BW 8)
- ▶ 300-MX Mixing Clear
- ▶ 300-SB Shading Black (BW 8)
- ▶ 300-TW Transparent White (BW 8)

**Color Availability**

The 300 flexo color range comprises standard Pantone® process and line colors, and additives.

**Extended Life Pigments**

- ▶ 308-064 Yellow (BW 8)
- ▶ 308-155 Rubine (BW 8)
- ▶ 308-160 Rhodamine (BW 8)
- ▶ 308-165 Magenta (BW 8)
- ▶ 308-175 Purple (BW 8)
- ▶ 308-205 Reflex Blue (BW 8)

**Process Colors**

For process printing please use:

- ▶ 300-004 Process Black (BW 8)
- ▶ 300-064 Process Yellow (BW 5)
- ▶ 300-190 Process Blue (BW 8)
- ▶ 300-155 Process Rubine (BW 5)
- ▶ 300-165 Process Magenta BS (BW 5)
- ▶ 300-103 Process Orange (BW 6-7)
- ▶ 300-127 Violet (BW 8)
- ▶ 300-325 Green (BW 7)
- ▶ 300-MX Mixing Clear  
(process color reduction)

Process Black, Process Yellow, Process Blue-Cyan and Rubine can be used as mixing or process colors.

**Specialty Whites**

- ▶ 300-SNW SuperNova White (BW 8)  
(Hi deposit backing white)
- ▶ 300-026 Brilliant White (BW 8)

**Shrink Applications**

- ▶ 300-LDW Last Down White (BW 8)
- ▶ 300S44142 Textured Last Down White (BW 8)
- ▶ 300-LDC Last Down Clear

**Additives / Varnishes / Adhesives**

- ▶ 300-TH Thinner
- ▶ 300-HGV Gloss Varnish
- ▶ 300-HGL Special Gloss Varnish
- ▶ 300-MO Matte Clear
- ▶ 300-IV Imprintable Varnish
- ▶ 380-IV Durable Imprintable Varnish

- ▶ 300-LPV Large Particle Varnish
- ▶ 300S43464 Tie Coat Primer
- ▶ 300-ADH1 Laminating Adhesive

**Transparents**

- ▶ 300-127 Violet
- ▶ 300-160 Rhodamine
- ▶ 300-240 Transparent Yellow
- ▶ 300-250 Transparent Yellow RS
- ▶ 300-260 Transparent Red YS
- ▶ 300-325 Green
- ▶ 300-MMX Metallic Mixing Clear

**Metallics**

- ▶ 300-877 Silver
- ▶ 300-871 Gold
- ▶ 300-872 Gold
- ▶ 300-873 Gold
- ▶ 300-874 Gold
- ▶ 300-875 Gold
- ▶ 300-876 Gold
- ▶ 300-MMX Mixing Clear

**Fluorescent**

- ▶ 300-801 Blue
- ▶ 300-802 Green
- ▶ 300-803 Yellow
- ▶ 300-804 Orange
- ▶ 300-805 Orange
- ▶ 300-806 Pink
- ▶ 300-807 Magenta

\* Pantone, Inc's check-standard trademark for reproduction and color reproduction

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