

850 Series

High Gloss UV Ink for flexographic printing

850 Series

850 Series UV Flexo inks are designed for use with multiple substrates, including PET, PVC, and others. 850 Fujifilm inks offer superb dot reproduction, maintain crisp print definition, sharp copy and clean reverses without the gain typical of water or solvent based flexo inks.

The 850 Series also have good flow and leveling properties and a high gloss level. Intercoat adhesion and trapping is particularly good, and these inks can be printed over or under other UV inks.

850 Series 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 conventional CO2 laser engraved anilox rolls up to 600 cells per inch, and process colors up to 1000 cells per inch. Process colors can be successfully printed with YAG engraved aniloxes up to 1500 cells per inch. Increased color strength can be achieved through the use of a lower anilox cell count, and reduce color strength with a higher anilox cell count. 850 Series are compatible with all plates designed to work with UV based inks.

850 Series Key Features:

- Ultra low viscosity range: 600-1000 cP
- High color density
- Superb dot reproduction
- Suitable for use on multiple substrates, including PET & PVC
- Excellent intercoat adhesion and trapping
- High gloss finish
- No foaming on press

Media Type

- PET
- PVC
- Pressure Sensitive Vinyl's
- Polystyrenes

EXTENDER

The 850 Series can be extended with 850-MX Mixing Clear to reduce color strength if a higher anilox cell count 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.

WASH UP

Anilox rolls can be washed up with Xtend Press Wash and after the production with Xtend Ink Degradents. Xtend Ink Degradents should be rinsed out with water before reusing the anilox.

Rotary Screens, Dr. Blades, Ink Pumps and Rollers can also be cleaned according to the following diagram:

	Rotary Screens	Anilox, Dr. Blades, Ink Pans	Rollers
Xtend XPW-800 Roller Wash	✓	✓	✓
Xtend XPW-105 Press Wash	✓	✓	Do not Use

CHEMICAL AND ABRASION RESISTANCE

850 Series have excellent resistance to chemicals, and abrasion. For optimum resistance using 850 Series, a durable UV varnish overprint can also be used.

PRE-PRODUCTION TESTS

850 Series 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. The 850 Series are especially well-suited for printing onto PET and PVC substrates. However it is strongly recommended that all substrates be tested before use, as supposedly similar substrates can vary between manufactures, and even between different batches from the same manufacturer. Certain plastics may be impregnated with lubricants which, like plasticizer migration, may impair adhesion and block resistance, even a considerable period after printing. It is also recommended to thoroughly test for compatibility when overprinted, as ribbons, toners and pigments used by

overprint technologies can vary from batch to batch.

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

OUTDOOR USE

While not developed specifically for extended life applications, the lightfastness of several of the 850 Series is appropriate for some outdoor applications of up to two years when used in conjunction with Fujifilm's 800-HGV Hi Gloss Varnish. There is a strong correlation between the level of lightfastness which is achieved and the amount of ink film deposit. An ink printed with a 300 line anilox will have vastly superior lightfast properties when compared to the same ink printed with a 1,000 line anilox. Customers are encouraged to use the heaviest ink deposit achievable when applications require outdoor weather ability.

SPECIAL MATCHES

Special colors can be supplied against prints, wet ink, Pantone®* numbers, or other Fujifilm standard colors. 850-311

Opaque White EL is the recommended choice for use as a tinting white in color matches.

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. Inks and additives should not be stored in direct sunlight or extreme temperature. Refer to Material Safety Data Sheet (MSDS) 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 MSDS for safety, handling, and waste disposal information.

SPECIFICATIONS: 850 SERIES

Standard Color Range

- ▶ 850-064 - Yellow GS
- ▶ 850-012 - Yellow RS
- ▶ 850-021 - Orange
- ▶ 850-180 - Warm Red
- ▶ 850-032 - Red
- ▶ 850-155 - Rubine
- ▶ 850-127 - Violet
- ▶ 850-175 - Purple
- ▶ 850-072 - Blue
- ▶ 850-205 - Reflex Blue
- ▶ 850-190 - Process Blue
- ▶ 850-325 - Green
- ▶ 850-SB - Shading Black
- ▶ 850-HTY - Process Yellow
- ▶ 850-HTM - Process Magenta
- ▶ 850-HTC - Process Cyan
- ▶ 850-HTK - Process Black
- ▶ 850-301 - OP Black
- ▶ 850-311 - OP White
- ▶ 850-312 - Opaque White
- ▶ 850-IHY - Process Yellow HD
- ▶ 850-IHM - Process Magenta HD
- ▶ 850-IHC - Process Cyan HD
- ▶ 850-IHK - Process Black HD
- ▶ 800-SNW - Supernova White
- ▶ 800S37142 - Supernova White LC
- ▶ MET977 - Sparkle Silver

- ▶ 800-SRV2 - Scuff Resistant Clear
- ▶ 800-IV - Imprintable Varnish
- ▶ PFS29299 - Flexo White PI Solution

*Pantone, Ink's check-standard trademark for reproduction and color reproduction.

Color Availability

The 850 Flexo color range comprises standard Pantone®* halftone and line colors, lightfast alternatives, and additives.

Additives/Varnishes

- ▶ 850-TH - Thinner
- ▶ 800-PI - Cure Promoter
- ▶ 800-HGV2 - High Gloss Clear
- ▶ 800-MDC - Super Scuff Resistant Clear
- ▶ 800-MVP - Flexo Matte Clear



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THE FUJIFILM GREEN POLICY

We at Fujifilm believe that "sustainable development" of the Earth, mankind, and companies in the 21st century is an issue that must be addressed with the highest priority. As a socially responsible corporation, we actively undertake corporate activities with our environmental values in mind. We strive to be a dedicated steward of the environment and assist our customers and corporate partners in doing the same.