

# 820 Series

## High Gloss UV Ink for flexographic printing

### 820 Series

820 Series UV Flexo inks offer superb dot reproduction, maintain crisp print definition and sharp copy and clean reverses without the gain typical of water or solvent based flexo inks. 820 Series inks have good flow, and leveling properties and a high gloss level. Intercoat adhesion and trapping is particularly good, and can be printed over or under other UV inks.

820 Series was 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 reduced color strength with a higher anilox cell count.

820 Series is compatible with all plates designed to work with UV based inks.

#### 820 Series Key Features:

- Moderate viscosity range: 1000-1500 cP
- High color density
- Superb dot reproduction
- Excellent intercoat adhesion and trapping
- Inkjet and laser receptive
- High gloss finish
- No foaming on press

#### Media Type

- Coated & Uncoated paper and board
- Pressure sensitive vinyl's
- Top coated or print treated polyesters, polyethylenes and BOPP films
- Polystyrenes

## EXTENDER

820 Series can be extended with 820-LVX or 820-HVX Extenders are used 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. To increase cure speed of the 820 Series UV Flexo inks, the use of PFS29299 Cure Promoter (for whites and clears), and PFS29284 (for colors) are recommended.

## 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	✓	✓	✓

## PRE-PRODUCTION TESTS

820 Series has been formulated to adhere to most top coated or corona treated plastic materials with surface tension levels of 38-40 dyne/cm or higher. However, it is strongly recom-

mended 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.

## CHEMICAL AND ABRASION RESISTANCE

820 Series inks have excellent resistance to chemicals, and abrasion. For optimum resistance using 820 Series inks, a durable UV varnish overprint can also be used.

## SPECIAL MATCHES

Special colors can be supplied against prints, wet ink, Pantone®\* numbers, or other Fujifilm standard colors. 820-TW Tinting White is the recommended choice for use for 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 in a cool environment, the inks are expected to have a shelf life of approximately 18 months from the date of manufacture.

## SAFETY AND HANDLING

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

## SPECIFICATIONS: 820 SERIES

### Standard Color Range

- ▶ 820-301 - Black
- ▶ 820-SB - Shading Black
- ▶ 820-009 - Deep Black
- ▶ 820-325 - Green
- ▶ 820-072 - Blue
- ▶ 820-175 - Purple
- ▶ 820-160 - Rhodamine
- ▶ 820-155 - Rubine
- ▶ 820-032 - Red
- ▶ 820-180 - Warm Red
- ▶ 820-021 - Orange
- ▶ 820-012 - Yellow RS
- ▶ 820-064 - Yellow GS
- ▶ 820-127 - Violet
- ▶ 820-205 - Reflex Blue
- ▶ 820-190 - Process Blue
- ▶ 820-311 - Opaque White
- ▶ 820-HTM - Process Magenta
- ▶ 820-HTC - Process Cyan
- ▶ 820-HTK - Process Black
- ▶ 820-HTY - Process Yellow
- ▶ 820-IHY - Intense Yellow
- ▶ 820-IHM - Intense Magenta
- ▶ 820-IHC - Intense Cyan EL
- ▶ 820-IHK - Intense Black EL
- ▶ 800-SNW - Supernova White
- ▶ 800S37142 - Supernova White LC

- ▶ PFS29299 - Cure Promoter (whites & clears)
- ▶ PFS29284 - Cure Promoter (darker colors only)

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

### Color Availability

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

### Additives/Varnishes

- ▶ 820-TH - Thinner
- ▶ 820-HVX - High Viscosity Extender
- ▶ 820-LVX - Low Viscosity Extender
- ▶ 800-PI - Cure Promoter
- ▶ 800-HGV2 - High Gloss Clear
- ▶ 800-MDC - Super Scuff Resistant Clear
- ▶ 800-MVP - Flexo Matte Clear
- ▶ 800-SRV2 - Scuff Resistant Clear
- ▶ 800-IV - Imprintable Varnish



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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.