800 Series

High Gloss UV Ink for flexographic printing

800 Series

800 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. 800 Series 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.

800-311 Opaque White EL white may be overprinted with thermal transfer, ion deposition, dot matrix, or laser imaging.

800 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.

800 Series is compatible with all plates designed to work with UV based inks. Tests have shown that 800 Series induces minimal plate swell and softening over a 24 hour period, well within manufacturers' suggested tolerances.

800 Series Key Features:

- Ultra low viscosity range: 700-900 cP
- High color density
- Superb dot reproduction
- Excellent intercoat adhesion and trapping
- High gloss finish
- No foaming on press
- Lightfast colors available for outdoor application

Media Type

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

EXTENDER

800 Series can be extended with 800-LVX or 800-HVX Extenders 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 800 Series UV Flexo inks, the use of 800-PI Cure Promoter is recommended.

WASH UP

Anilox rolls can be washed up with commercial wash solutions designed for UV flexographic inks. Consult plate supplier for recommended plate cleaning solutions

PRE-PRODUCTION TESTS

800 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 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.

CHEMICAL AND ABRASION RESISTANCE

800 Series have excellent resistance to chemicals, and abrasion. For optimum resistance using 800 Series inks, a durable UV varnish overprint can also be used.

OUTDOOR USE

The 800 UV Flexo range consists of both non-lightfast and lightfast colors. Colors considered lightfast are indicated with an "EL" at the end of the product description. These inks have been formulated with industry standard pigments for outdoor applications, all possessing a Blue Wool rating of 6 or greater. The lightfastness of the 800 EL series inks is appropriate for outdoor applications of up to 2 years when used in conjunction with Nazdar'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.

Increased color strength and maximum weather ability will be achieved through the use of a lower anilox cell count, while reduced color strength and shorter outdoor life will be experienced with a higher anilox cell count. For optimum results, 800 EL inks must be applied according to manufacturing specifications on suitable substrates, which have equal or greater weathering guarantees. For optimum light fastness in color-matched shades, the following recommendations must be observed:

- The combined portion by weight of white and clear used in color matches should not exceed 50% of the total color match mix.
- The individual portion of any one color, except lack or white, should not be less than 10% of the total color match mix.

Note: Nazdar cannot guarantee the outdoor performance of the 800 EL inks due to the many uncontrollable variables affecting lightfastness and weather ability - such as substrate used, printing/curing conditions, severity of the weather conditions, etc.

SPECIAL MATCHES

Special colors can be supplied against prints, wet ink, Pantone®* numbers, or other Nazdar standard colors. 800-311 Opaque White EL is the recommended choice for use as a tinting white in color matches.

*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.

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

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).

Shelf Life: 12 months from date of manufacture (Unopened 1 gallon containers). Please consult Shelf Stability from Date of Manufacture at Shelf Life Chart for other container sizes, fluorescents & metallics

SAFETY AND HANDLING

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

SPECIFICATIONS:
800 SERIES

Standard Color Range

- 800-012 - Yellow RS
- 800-021 - Orange EL
- 800-026 - Brilliant White EL
- 800-032 - Red
- 800-064 - Yellow GS
- 800-072 - Blue
- 800-127 - Violet EL
- 800-155 - Rubine
- 800-160 - Rhodamine
- 800-175 - Purple
- 800-180 - Warm Red
- 800-190 - Process Blue EL
- 800-205 - Reflex Blue
- 800-301 - Line Black EL
- 800-311 -Opaque White EL
- 800-325 - Green EL
- 800-SB - Shading Black EL
- 800-SNW- Supernova White
- 800S37142 - Supernova White LC
- 800-HTY - Process Yellow
- 800-HTM - Process Magenta
- 800-HTC -Process Cyan EL
- 800-HTK -Process Black EL
- 800-IHY - Process Yellow HD
- 800-IHM - Process Magenta HD
- 800-IHC - Process Cyan HD EL
- 800-IHK - Process Black HD EL
- 800-LVX - Low Viscosity Extender
- 800-HVX - High Viscosity Extender
- MET977 - Sparkle Silver

Lightfast Color Range

- 808-032 - Red EL
- 808-064 - Yellow GS EL
- 808-072 - Blue EL
- 808-155 - Rubine EL
- 808-160 - Rhodamine EL
- 808-175 - Purple EL
- 808-180 - Warm Red EL
- 808-205 - Reflex Blue EL
- 808-HTM - Process Magenta EL
- 808-HTY - Process Yellow EL

Additives/Varnishes

- 800-HGV2 - High Gloss Clear
- 800-MDC - Super Scuff Resistant Clear
- 800-MVP - Flexo Matte Clear
- 800-IV - Imprintable Varnish
- 800-MO - Matte Overprint Varnish
- 800-PI - Cure Promoter
- 800-TH - Flexo Thinner
- PFS29299 - Cure Promoter (whites & clears)
- PFS29284 - Cure Promoter (darker colors only)

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