NAZDAR INK TECHNOLOGIES 300 SERIES

300

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

300 Series UV flexo inks are designed for use with all common flexo substrates. Nazdar 300 Series inks offer the ability to cure under either traditional UV or LED lights with the same ink. The 300 Series offers superb dot reproduction, maintain 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.

300 Series Key

- 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
- High slip for bottle application
- High abrasion resistance
- No foaming on press applications

Media

- 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 for conventional curing and up to 20 bcm with LED cure. 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.

EXTENDER

The 300 Series Inks can be extended with 300-MX 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.

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

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.

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 Nazdar standard colors. A database of suggested formulas to be used with SLV to match the Pantone Guides can be obtained from your Nazdar 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.

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 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:
300 SERIES

Standard Color Range
- 300-021 - Orange
- 300-032 - Red
- 300-064 - Process Yellow*
- 300-127 - Violet
- 300-155 - Rubine*
- 300-160 - Rhodamine
- 300-165- Process Magenta BS
- 300-175 - Purple
- 300-180 - Warm Red
- 300-190 - Process Blue - Cyan*
- 300-205 - Reflex Blue
- 300-325 - Green
- 300-301 - Line Black
- 300-311 - Opaque White
- 300-MX - Mixing Clear
- 300-SB - Shading Black
- 300-SNW - SuperNova White (High deposit backing white)

Process Colors

For process printing please use:
- 300-004 - Process Black*
- 300-064 - Process Yellow*
- 300-165 - Process Magenta BS
- 300-190 - Process Blue - Cyan*
- 300-155 - Process Rubine*
- 300-MX - Mixing Clear (process color reduction)

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

Shrink Applications
- 300-LDW - Last Down White
- 300-LDC - Last Down Clear

Color Availability

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

Additives / Varnishes / Metallics
- 300-TH - Thinner
- 300-HGV - Gloss Clear
- 300-MO - Matte Clear
- 300977 - Sparkle Silver
- 300-MMX - Metallic Mixing Clear (use with metallics and pearls)

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

NAZDAR INK TECHNOLOGIES

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