

683NC Series UV LED (Light Emitting Diode) Flexo Ink is specifically formulated for Tag, Label and Packaging applications. This ink has excellent rheology characteristics making it ideal for most printing equipment and product applications.

The 683NC Series is Dual Cure and has been specifically formulated for use with at least a 16W/cm² UV LED curing lamps (with an output wavelength of 395nm), or conventional Hg UV lamps (400W/in H-Bulb) and can cure at web speeds in excess of 700 fpm

MIGRATON TESTING

683NC Series UV Flexo Ink is formulated to comply with the **Nestle' Guidance Note on Packaging Inks (2022)**. Although 683NC Series UV Flexo Inks are formulated with ingredients suitable for low migration applications, the end user should determine suitability of the end application by appropriate migration testing. All possible sources of migration and contamination should be evaluated for compliance.

APPLICATION AND USE

Plates

683NC Series UV LED Flexo Ink is compatible with most UV Flexo plates currently on the market.

Substrates

Pressure sensitive vinyl, top coated and print treated polyester, BOPP films, polyethylene, polystyrene, coated paper & board, PETG, PVC shrink, direct thermal paper.

Anilox Rolls

Process Printing: 2.0 – 2.5 BCM
Solid & Line Printing: 2.5 – 5.0 BCM

Printing

683NC Series UV LED Flexo Ink 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.

Clean Up

Use NWC20 EZ Cleaner.

GENERAL INFORMATION

Storage

Store tightly covered at temperature at 65°-90°F (18°-32°C) for optimum print and cure performance. To prevent premature cure or gelling, keep away from heat, flame and direct light sources. Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

Ink Handling

683NC Series UV LED Flexo Ink is formulated to be press ready. Thoroughly mix the ink prior to printing. Proper personal protection equipment is required when handling this material. Please consult MSDS for details on proper handling of this material.

Performance Verification

After press/job set up is complete, inspect a portion of the printed web for all applicable and specified properties. These properties include but are not limited to migration, cure, adhesion, mar and rub resistance, product resistance, gloss, and coefficient of friction. These tests should be performed prior to beginning the full production run.

Shelf Life

12 months from date of manufacture (Unopened gallon containers) Please consult at [Shelf Life Chart](#) for other container sizes, fluorescents & metallics. Protect from freezing.

PRODUCT OFFERING

Process Colors

Standard process colors are formulated to print using an anilox volume of 0.8 -2.0 BCM.

Base Colors

Standard base colors are designed to be high strength and formulated to print using anilox volume of 2.0 – 4.5 BCM. The colors can be mixed together to achieve an unlimited number of strong vibrant colors.

Packaging

Product	Americas	EMEA
Opaque White	11 lb, 50 lb	7 kg
Transparent White	8 lb, 40 lb	5 kg, 20 kg
Other Colors	9 lb, 45 lb	5 kg, 20 kg
Overprint Varnish	8 lb, 40 lb	5 kg, 20 kg

Stock No.	Base Printing Colors
683NC08	Base Op White (Bw8)
683NC09	Base Black (BW8)
683NC10	Base Transparent White
683NC11	Base Yellow (BW5)
683NC12	Base Orange 021 (BW6)
683NC13	Base Warm Red (BW5)
683NC14	Base Rubine Red (BW4)
683NC19	Base Process Blue (BW8)
683NC20	Base Green (BW8)
683NC032	Base Red 032 (BW4)
683NC072	Base Blue 072 (BW7)

Stock No.	Fade Resistant (FR) Colors
683NC21	FR Yellow (BW7)
683NC22	FR Orange (BW7)
683NC23	FR Warm Red (BW7)
683NC24	FR Rubine Red (BW8)
683NC25	FR Rhodamine Red (BW8)
683NC26	FR Purple (BW8)
683NC27	FR Violet (BW8)
683NC28	FR Reflex Blue (BW8)

Stock No.	Process Colors
683NC41	Process Yellow (BW5)
683NC42	Process Magenta (BW5)
683NC43	FR Process Cyan (BW8)
683NC44	FR Process Black (BW8)
683NC47	FR Proc Yellow (Bw7)
683NC48	FR Proc Magenta (Bw8)

Stock No.	ECG Colors
Expanded Gamut meets ISO 12647-2 and FOGRA 39	
683NC22	FR Orange (BW7)
683NC20	Base Green (BW8)
683NC27	FR Violet (BW8)

Stock No.	Cleaner
NWC20	EZR Cleaner

Stock No.	Other Colors (Not Nestle')
68315	Base Rhod Red (Bw4) (Not NC)
68316	Base Purple (Bw4) (Not NC)
68317	Base Violet (Bw5) (Not NC)
68318	Base Reflex Blue (Bw5) (Not NC)

Stock No.	Opaque Whites
6005312768	LOLED Packaging Op White
6004827168	LVLO Opaque White (Not NC)

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

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