

686 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 686 Series is Dual Cure and has been specifically formulated for use with economical lower dosage UVLED lamps or conventional Hg UV lamps (400W/in H-Bulb) and can cure at web speeds in excess of 700 fpm

**APPLICATION AND USE**

**Plates**

686 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**

686 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**

686 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
686	Base Op White (Bw8)
686	Base Black (BW8)
686	Base Transparent White
686	Base Yellow (BW5)
686	Base Orange 021 (BW6)
686	Base Warm Red (BW5)
686	Base Rubine Red (BW4)
686	Base Process Blue (BW8)
686	Base Green (BW8)
686	Base Red 032 (BW4)
686	Base Blue 072 (BW7)

Stock No.	Fade Resistant (FR) Colors
686	FR Yellow (BW7)
686	FR Orange (BW7)
686	FR Warm Red (BW7)
686	FR Rubine Red (BW8)
686	FR Rhodamine Red (BW8)
686	FR Purple (BW8)
686	FR Violet (BW8)
686	FR Reflex Blue (BW8)

Stock No.	Process Colors
686	Process Yellow (BW5)
686	Process Magenta (BW5)
686	FR Process Cyan (BW8)
686	FR Process Black (BW8)

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

Stock No.	Cleaner
NWC20	EZR Cleaner

Stock No.	Other Colors
686	LOLED Packaging Op White
686	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®.

**Nazdar - World Headquarters**

8501 Hedge Lane Terrace, Shawnee, KS 66227-3290 USA  
 Toll Free US: +1 866.340.3579  
 Tel: +1 913 422 2255  
 E-mail: NazdarOrders@nazdar.com  
 Technical Service Email: InkAnswers@Nazdar.com

**Nazdar Limited - EMEA**

Battersea Road, Heaton Mersey, Stockport, England SK4 3EE  
 Tel: +44 161 442 2111  
 Technical Service Email: technicalservicesuk@nazdar.com