

FLUORESCENT UV INK



Screen Graphics

UV Fluorescent Ink for General POP Applications

Features

- Press Ready Fluorescent Colors
- Excellent Adhesion Properties
- Strong Vibrant Colors
- Easy to Use

Substrate Application

NMP Fluorescent Ink Series:
Polystyrene
Some Rigid Vinyl
Some Paper and Card Stocks
Treated Coroplast™ (when catalyzed)
NPC Fluorescent Ink Series:
Pressure Sensitive Vinyl
Single-Sided Vinyl Banner
Some Paper and Card Stocks

Pre-Production Tests

It is strongly recommended that all substrates be tested before use as supposedly similar substrates can vary between manufacturers and even between different batches from the same manufacturer. Certain plastics may be impregnated with lubricants that, like plasticizer migration, may impair adhesion and block resistance, even a considerable period after printing. Other plastics can become brittle or caused to curl after printing.

END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION.

Mesh and Squeegee

These inks are recommended to be used with 305 to 355 count mesh made with low elongation monofilament polyester (120 to 140/cm). The ideal squeegee durometers are from 70 to 85 and resistant to UV inks.

Stencils

Stencil materials must be solvent resistant and produce a thin film stencil (3-6 microns over mesh). Use emulsions recommended to give the highest print quality and stencil durability.

Curing

Ultraviolet curable inks are dependent on a high dosage of intense ultraviolet light in a spectral range between 250 and 360 nanometers to initiate cure.

Cure speeds are dependent on colors, film thickness, opacity and condition of the curing unit. It is recommended that the energy output of the cure units be measured using a radiometer or similar equipment.

For the NMP and NPC fluorescent inks the following guidelines are recommended:

305.40PW Mesh

Minimum millijoules—200 mJ/cm²—measured at the UVA component

Minimum milliwatts—600 mW/cm²—measured at the UVA component

355.34PW Mesh

Minimum millijoules—175 mJ/cm²—measured at the UVA component

Minimum milliwatts—600 mW/cm²—measured at the UVA component

Adhesion should be at least 80% immediately out of the reactor with final adhesion developing in two to four hours.

If under-cure is experienced with any color, demonstrated through a wet film or loss of gloss, it is usually due to excessive ink deposit. To correct this, the mechanics, such as mesh, squeegee, color density, machine speed, or the amount of UV energy should be changed.

NAZDAR
INK TECHNOLOGIES

Product Information

FLUORESCENT UV INK

Coverage

These fluorescent colors should yield coverage of approximately 2,800 to 3,200 square feet/gallon (69 to 78m²/liter) depending on film thickness.

Wash Up

Wash up on press with press washes and after the production run with ink degradants.

Color Availability

The NMP and NPC fluorescent color range includes the following colors:

	NMP Series	NPC Series
V-Glo Chartreuse	NMP-600	NPC-600
V-Glo Orange/Yellow	NMP-610	NPC-610
V-Glo Orange	NMP-620	NPC-620
V-Glo Orange/Red	NMP-630	NPC-630
V-Glo Rocket Red	NMP-640	NPC-640
V-Glo Pink	NMP-650	NPC-650
V-Glo Green	NMP-660	NPC-660
V-Glo Blue	NMP-670	NPC-670

All colors have been formulated to contain no pigments which contain lead or other heavy metals. These products are formulated to meet CONEG Packing Legislation. If necessary, certification of lead and heavy metals content can be obtained from an independent laboratory.

Compatibility with Other Inks

The NMP ink can be intermixed with the Fascure FC series. The NPC ink can be intermixed with the Plastical EL (PEL) series.

Both NMP and NPC can be inter-printed over and/or under most common Nazdar UV ink series.

Outdoor Use

The NMP and NPC fluorescent inks are *not* recommended for outdoor use. Most fluorescent pigments will begin to fade immediately when exposed to direct sunlight. When exposed to external elements or direct sunlight, these pigments tend to lose all color within 4 weeks.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

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Thinning

It is essential to thoroughly stir the ink before use. Properly stirring the ink for three to five minutes using a high-speed agitation device is recommended. These inks are designed to be press ready.

If thinning is required, the ink should be thinned 3% to 5% by weight using PEL-TH thinner (for NPC ink) or MR-TH thinner (for NMP ink). It is recommended that thinner be added in 1% increments until desired viscosity is achieved.

Special Uses

With the addition of AF-CAT catalyst, the NMP fluorescent ink demonstrates excellent adhesion to treated Coroplast™ and other fluted polyolefin stocks with dyne levels of 40 to 42 dyne/cm² or higher.

For best results, add 5% AF-CAT by weight and mix thoroughly. Catalyzed ink should be consumed within 6 to 8 hours of mixing under most conditions.

Storage

Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the screen should be disposed of. 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 under these conditions the maximum shelf life is shown by the use by dates, which are clearly marked on all ink containers.

Safety and Handling

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