

Graphic

Screen UV

Inks

Outdoor Signage POP/Displays

PLASTISIGN PN

UV Screen Inks for PVC Plastics

FEATURES

- UV Curing Inks
- Two year Outdoor Durability
- Very good Gloss
- Very Fast Cure Speeds
- Superior Flexibility & Intercot at Adhesion
- Excellent High Speed Printability
- Good Die Cutting
- V-Pyrol Free

Substrate:

Self adhesive and rigid PVC, PVC flex & PVC foam.

**TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.**

SERICOL
More than ink...Solutions.
FUJIFILM

Applications:

The Plastisign PN inks are recommended for Signage & POP display for upto one year outdoor exposure.

Note: The printing surface must be free of contamination like organic / oily substances, water & dust particles to ensure proper adhesion.

Outdoor Use:

Plastisign PN inks have been successfully tested for weathering in a QUV Weatherometer, as per ASTM G53 test specification, using UVB-313 lamps. Plastisign PN inks withstood 800 hours of testing before any perceptible change in colour.

Colour Range:

Plastisign PN ink system consists of Trichromatic (halftone) colours, an extender base (PN 396), black & white.

PN 396 is used for mixing with colours to promote transparency.

Trichromatic (Halftone) colours:

PN 004	Trichromatic Black
PN 052	Trichromatic Yellow
PN 052A	Trichromatic Yellow (RS)
PN 135	Trichromatic Magenta
PN 215	Trichromatic Cyan
PN 396	Trichromatic Extender Base

Line Colours:

PN-001	Black
PN-025	Opaque White

Other line colours can be developed, on request.

Thinning:

Plastisign PN inks are supplied press ready and thinning is normally not required. If thinning is necessary, use 3 to 5% PN-TH Thinner.

Mesh :

Print the Plastisign PN inks 140.34/cm to 180.34/cm, monofilament polyester fabric, depending on the application. For fine details & half tone printing, use amber or yellow coloured fabric.

Coverage:

Plastisign PN inks should give a coverage of 100 sq.m/Kg, when printed through a 150.34/cm mesh.

Stencils :

Stencils can best prepared with Sericol's stencil making products :

Xtend Prep 101 for abrasion of screen mesh.

Xtend Prep 102 for degreasing of screen mesh.

Emulsions: Dirasol 132(single pack) or Dirasol 915(two pack).

Wash Up:

Wash up screens with SS 639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions.

Curing:

14-22 meters per minute through 140.34 mesh. with two 80 watt/cm² lamp for curing. Cure speeds are dependant on colours, film thickness, opacity and condition of the curing unit.

If undercure is experienced with any colour demonstrated through wet film or loss of gloss, it is usually due to excess ink deposit. To correct this, the mechanics, such as mesh , squeegee, colour density, belt speed or the amount of UV energy must be changed.

Reduction of colour density is usually achieved by adding PN 396 mixing clear in the ink. Adhesion should be at least 80% immediately after curing and final adhesion developing after 4 hours. Required curing has to be studied for the Job to Job and minimum 175 mJ for CMYK colours and for White & Black colours 200 mJ.

This is only guideline information but this can vary on ink film thickness, substrate and colour. The final curing of each colour has to be set at proofing Job and after intended test requirement (adhesion, gloss...etc) before going for Mass production.

Note: Undercure can give low gloss and wet film with tacky nature. Overcure can give ink film brittleness, poor intercoat adhesion. Plastisign PN inks are supplied press ready and addition of cure additive is normally not required.

Pre-production Test:

Always test for Adhesion, outdoor durability and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches. Other plastics can become brittle or cause to curl after printing.

Important: End-user must determine suitability of this product for the intended use prior to production.

Storage:

- Keep inks in cool place, away from direct sunlight, or extreme temperatures.
- Keep lids tightly closed when not in use.
- Don't put the remaining material left on screen in the PN inks tin. Keep remaining material separately in other can.
- Open the can and stir for 5 minutes under moderate (Very slow) speed and leave 10 –20 minutes for Degassing.
- Shelf life is 18 months from date of manufacture under storage of 20°C to 30°C.

Safety and Handling:

The Plasisign PN system is formulated to be free from any known or suspected toxic, carcinogenic, mutagenic or reprotoxic chemicals.

This system is formulated free from lead and other heavy metals. Comprehensive Information on Safety and Handling of Plasisign PN screen inks is given in the MSDS which is available on request.

Environmental Information:

Plasisign PN ink system does not contain ozone depleting chemicals as described in the Montreal Convention.

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications 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 the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

Our policy of continuous product improvement might make some of the information contained in this product information sheet out of date and users are requested to ensure that they follow current recommendations.

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