

Graphic Screen 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 & Intercoat 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

Thinning

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

Mesh

Print the Plastisign PN inks through 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.

Stencils

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

- **Xtend Prep 101:** for abrasion of screen
- **Xtend Prep 102:** for degreasing of screen

Emulsions: Dirasol 132 single pack or Dirasol 915 & Dirasol 902 two-pack emulsion.

Curing

14-22 metres per minute through 140.34 mesh with one 80 watt/cm² lamp for curing. Cure speeds are dependent 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.

Coverage

Plastisign PN inks should give a coverage of 100 sq.m./kg, when printed through a 150/cm mesh.

Wash Up

Wash up screens with SS639 Universal Screen wash. This will ensure long life of stencils made with Dirasol emulsions.

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 inks withstood 800 hours of testing before any perceptible change in colour.

Pre-Production Test

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

Always test for adhesion 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.

Storage

- Keep inks in a cool place, away from direct sunlight or extreme temperatures
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to the can; must be stored separately.
- Shelf life is eighteen months from the date of manufacture, under storage at 10° C to 25° C
- **Stir well before every use.**

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.

Colour Range

The 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

Trichromatic (Halftone) Colours

PN-001	Black
PN-025	Opaque white

Other Line Colours can be developed, on request.

Safety and Handling

The Plastisign PN system:

■ Is formulated to be free from any known or suspected toxic, carcinogenic, mutagenic or reprotoxic chemicals.

■ Is formulated free from lead and other heavy metals.

Comprehensive information on the safety and handling of Plastisign PN screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information

Plastisign PN Ink System does not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information 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 guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products manufacturing methods, printing stocks and other material vary. For the same reason, our products are sold without warranty and on the condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvements might make some of the information contained in the Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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