

Polyplast LN EL

Screen Inks

SERICOL

Product

Information

Polyplast LN EL is a system of inks and overprint varnish designed for long life outdoor applications on a wide range of flexible and rigid plastics.

Main Characteristics

Finish	Drying	Thinning & Wash-up	Mesh	Stencil Type	Coverage & Mesh No.	Applications	Colour Range
High Gloss	Air dry 20-30 minutes.	10-15% Thinner No. 4 Slow Thinner No.5 Wash up with Wash up No.4 or Wash up No. 1	77.48 – 110.34 monofilament	Any solvent resistant stencil. Sericol Emulsion: Dirasol 915 Dirasol 916 Indirect: 25/35 Micron Capillary Film	45m ² /kg through 90.48	self adhesive PVC, polycarbonate, ABS, vinyl, coated films & foils, PVC banners ** ** Banners pre- wiped with methylated spirits to remove plasticiser.	12 lead- free, fade resistant Seritone Matching System shades Metallics. Process colours + 8 additional spot colours
Properties High gloss. Fast drying. Good screen stability and self solvency. Outstanding adhesion on most vinyls. Up to 5 years outdoor life in Australian climate.				Product Resistance Polyplast LN EL inks overprinted with PY-433 EL Overprint Varnish have good resistance to a wide variety of products including petrol, alcohol and battery acid.			

IMPORTANT: Stir well before every use. Always test application fully before beginning production run as there is often considerable variance in plastics from different manufacturers and even between different batches.

Plastics

Certain plastics may be impregnated with lubricants which, like plasticiser migration may impair adhesion and block resistance - even a considerable time after printing. This can usually be overcome by wiping the surface with white spirit before printing. Surface adhesive left from protective papers on PVC sheets should be thoroughly removed as per supplier's instructions.

Certain plastics can become brittle when printed, possibly to the point of shattering, often only after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against this problem.

Special Matches

Matches can be supplied against prints, wet samples, or colour references such as PANTONE™. A sample of the substrate to be printed, the mesh to be used, as well as any other relevant information should be attached to the order.
Minimum quantity 1kg.

Pantone

The Polyplast LN EL Seritone colour system includes a Pantone™ approved matching database. Pantone™ colours may be easily and quickly mixed using formulae from the Polyplast LN EL Pantone™ Formula Book, the Sericol Colour Manager software and using Sericol Pantone™ Scales. Further details are available in the Sericol Pantone™ Mixing System Manual.

Outdoor Use

To achieve maximum outdoor durability LN EL colours must be overprinted with PY-433 EL Overprint Varnish. See separate Product Information sheet for details.

Accelerated Weathering:

Tests have been conducted on prints produced using Polyplast LN EL Seritone colours which indicate that provided application recommendations are followed, a life of 4-5 years can be expected (not including metallics or additional spot colours).

Metallics:

Metallic shades or shades containing a proportion of metallic colours must be over varnished with PY-433 or significant deterioration will occur.

Guarantees:

A guarantee of the outdoor life of Polyplast LN EL prints is available on request. To be valid, the following recommendations must be followed: Only recommended reducers must be used, at recommended percentages. Only recommended mesh counts may be used. Prints must be over varnished with PY-433. Only highly durable, self adhesive PVC substrates may be used. Advice in "Special Recommendations" section must be followed for guarantee to be valid.

Environmental Information

Polyplast LN EL

- Is formulated to be free from heavy metals
- Does not contain ozone-depleting chemicals as described in the Montreal convention

Colour Range

The Polyplast LN EL range includes 9 special Seritone base colours designed for use in colour matching in conjunction with LN-010 Tinting Black, LN-010 Tinting White and LN-383 Extender Base. Where a black or white printing colour is required, the standard LN-001 Black/LN-009 Dense Black and LN-021 White/LN-025 Cover White should be used as they have higher opacity and colour strength than the Tinting shades. Also available are two metallics powders, Multi-purpose Silver Powder 850143 and Multi-purpose Gold Powder 850145.

Metallic Shades

Metallic shades can be obtained by mixing LN-383 Mixing Varnish with the above gold and silver powders. Recommended mixing ratios are as follows:

Gold: 850145 Multi-purpose Gold Powder
Up to 20% by weight
LN-383 Extender Base
80% by weight

Silver: 850143 Multi-purpose Silver Powder
Up to 10% by weight
LN-383 Extender Base
90% by weight

Polyplast LN EL metallics may be tinted if required by 5 - 10% additions of Polyplast LN EL Seritone base colours. Any Polyplast LN EL metallic shades will not be covered under guarantees.

Safety and Handling

The Polyplast LN EL system:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals

Comprehensive information on the safety and handling of Polyplast LN EL screen inks and solvents is given in the appropriate Sericol Safety Data Sheet, which is available from the Sericol Product Catalogue CD or upon request.

Special Recommendations

To obtain the best results from the Polyplast LN EL system, the following recommendations must be followed during colour matching and print production.

1. The 11 colours which comprise the LN EL Seritone system and LN-383 varnish may be:
 - a) printed over and under each other
 - b) intermixed for matching purposes provided that:
 - i) the combined proportion by weight of LN-030 Tinting White and LN-383 Mixing Varnish does not exceed 80% of the total mix.
 - ii) the individual proportion of any one colour, except lack, is not below 5% of the total mix.
2. No colour, other than those in the LN EL Seritone Matching System may be added.
3. The LN EL system must be printed on to suitably durable and compatible substrates.
4. Additives additions should be kept below a total of 15%.

Standard Colours

Polyplast LN Matching System

LN-010	EL Seritone Tinting Black
LN-030	EL Seritone Tinting White
LN-841	EL Seritone Yellow GS
LN-843	EL Seritone Yellow RS
LN-802	EL Seritone Orange
LN-821	EL Seritone Red YS
LN-864	EL Seritone Red BS
LN-165	EL Seritone Magenta
LN-127	EL Seritone EL Violet
LN-230	EL Seritone Blue
LN-325	EL Seritone Green
LN-383	EL Seritone Mixing Varnish

Polyplast LN Process Colours

LN004	EL Process Black
LN052	EL Process Yellow
LN135	EL Process Magenta
LN215	EL Process Cyan

Polyplast LN additional spot colours

LN-001	EL Black
LN-009	EL Dense Black
LN-021	EL White
LN-025	EL Cover White
LN-042	Basic Yellow
LN-125	Rhodamine
LN-163	Rubine
LN-236	Reflex Blue

Polyplast LN EL Additives

LN-816	Flattening Paste
LN-561	Process Gel
012138	Retarder Gel

Storage

Tins should be kept in a cool place and tightly closed when not in use.

- Excess ink from the screen should be disposed of in accordance with local regulatory authorities

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, 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 fully meet their particular requirements. 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.

SERICOL
More than ink...Solutions.

FUJIFILM Sericol Australia Pty Limited, 4 Coronation Ave, Kings Park, NSW 2148
Telephone: (02) 8825 2700 Fax: (02) 9621 8100

Technical Helpline : 1300 135 357 Orders Hotline : 1300 650 504