

IL Series Industrial Lacquer Screen Ink

Code Ref: D420

technical information and application instructions

Substrates	Many plastics, lacquer and pyroxylin coated surfaces, treated polyester, wood, cellulose acetate, acrylics, and many polyesters. Used on paper and cardboard displays, foils, and book covers.
End Uses	These inks are suitable for printing on some rigid plastics, but vacuum forming is not recommended. The inks have numerous industrial applications where abrasion resistance, mild acid resistance, as well as gasoline and mar resistance are required. Excellent for metal parts that have been coated with synthetic enamels, baked urea or melamine, and many polyester finishes. They have wide applications in book cover printing, particularly on pyroxylin coated stock.

Product Information

Extremely hard finish nitro-cellulose lacquers with excellent adhesion to a wide variety of surfaces. These inks have excellent opacity, high gloss, and good mar resistance. IL Series are, in many respects, comparable to a high-quality enamel but offer the fast-drying characteristics of lacquers.

Application Information

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. See full disclaimer at end of document.

Mesh	75T – 120T Mesh.
Stencil	All direct photo emulsions, photo stencil films and hand cut stencil films that are solvent resistant.
Squeegee	70 to 80 durometer polyurethane blades as well as triple durometer blades that produce an even ink deposit.
Coverage	25 – 40 sqm per kilo (90T-120T mesh)
Drying	By solvent evaporation. Air-Dry in 20 to 40 minutes. Jet dry in seconds. May be cured for 10 minutes at 90°C for industrial applications in either gas-fired, electric, or infrared ovens.
Thinners	N565-S350 IL180 Thinner; N565-S352 IL182 Retarder or Universal Retarder D564-0S064.
Additives	N504-S080 - IL170 Clear; N504-S094 - IL178 Sharp Print Compound for fine detail (will reduce gloss depending on percentage used).

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Metallics Silvers can be made by adding 6 – 8% aluminium powder to IL Clear. It is not possible to make gold's as bronze powders are not stable in IL Clear and an ink will quickly gel. Any prints made are liable to tarnish quickly. Pearl colours can be made on request.

Clean Up N660 – S344 Screen Wash.

General Guidelines

Ink Handling All personnel mixing and handling inks must wear gloves and eye protection. Clean up spills immediately. If ink does come in contact with skin, wipe off with a clean, dry, absorbent cloth (do not use solvent or thinner). Wash and rinse affected area with soap and water. Consult the IL SDS for further instructions and warnings.

Storage Store tightly covered at temperatures between 15°C - 32°C. Ink taken from the press should not be returned to the original container. Store separately to avoid contaminating unused ink.

Shelf life of unopened cans is 5 years from date of manufacture. Stir well before use.

caution

Please proof this ink, reduced to the consistency you wish to adopt, on a sample of the ACTUAL SUBSTRATE you will be printing BEFORE starting a production run.

Give the proof 24 hours to post cure then check for: Abrasion resistance, adhesion, print appearance and correctness of colour. The adequacy of this ink in these properties cannot be fully established on laboratory equipment on a small scale.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapour or spray mist. Keep container closed when not in use.

GL stands behind the quality of this product. GL cannot, however, guarantee the finished results because GL 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. This product has been specially formulated for screen printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from GL.

[end]

Last date amended: 7 February 2023