

Monocure One-Pack Curing Screen Ink

Code Ref: D482 | D487 | D488

technical information and application instructions

Substrates	High gloss single pack curing system for printing on to treated polypropylene, treated polyethylene and some coated metals.
End Uses	<p>This is a blocked catalyst curing system (catalyst only reacts after the solvents evaporate) which has a shelf life of about 3 - 6 months, and when fully cured the print has good resistance to a wide range of solvents, chemicals and products normally packaged in "poly" containers.</p> <p>This ink will exhibit good adhesion immediately upon drying while full resistance properties will only be achieved in 5 – 7 days. Monocure is not recommended for applications requiring extended outdoor exposure.</p>

Product Information

A universal hard finish gloss lacquer. Can be printed on lacquer coated surfaces, wood, metal, paper, cardboard displays, foil and many types of rigid plastics. Very good results are obtained as a single pot ink for polyethylene bottle printing. This system has good product resistance for soaps and bleached but is not suitable for alcohol/glycol-based products, such as brake fluid.

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	For best results, use 90T to 120T mesh.
Stencil	All direct photo emulsions, photo stencil films and hand cut stencil films that are solvent resistant.
Squeegee	70-80 durometer polyurethane blades as well as triple durometer blades that produce an even ink deposit.
Coverage	20-25 Square meters per kg (90T mesh).
Drying	Can be oven dried for 1 minute @ 80°C. Will air-dry in 20-40 minutes to a touch dry state. Allow at least 24 hours for full cure and the development of maximum adhesion.
Thinners	N665-S280 – Epoxy Thinners/Wash or N665-S282 – Epoxy Retarder.
Metallics	Silvers can be made by adding 6 – 8% aluminium powder to D482-A050 Monocure Mixing Clear. Metallic golds are not stable.

[continued...]

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Clean Up N665-S280 – Epoxy Thinners/Wash is preferred - regular N660-S344 Screen wash is generally not as effective and may leave stained or blocked screens.

It is essential to clean screen immediately after printing or stopping for e.g. tea break – the ink will cure in the screen during the stoppage and will be impossible to remove.

Overprinting Use N660-S344 Screen Wash for cleaning ink from the screen. If printing a multi-colour job which has areas where two or more colours overprint, in more than one pass through the printer, the time between printings must be kept to a minimum.

As the first colour progressively cures the adhesion of the overprinting colours becomes more difficult. Never leave the first print overnight.

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 Monocure SDS for further instructions and warnings.

Storage Monocure inks are always supplied in plastic containers because of the acidic corrosive nature of the ink. Store tightly covered at temperatures between 15°C - 32°C – the cooler the storage conditions the longer the shelf life. Ink taken from the press must not be returned to the original container. Store separately to avoid contaminating unused ink.

Shelf life of unopened cans is 3 months 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