

SO Series – Scratch Off Screen Ink

Code Ref: 590

technical information and application instructions

Substrates	Cardstock.
End Uses	Scratch-Off Ink is specially formulated to be printed on lottery tickets and many game prize cards given away by retail outlets. This ink forms very opaque film that hides the “prize” until the ink is removed by scratching with a fingernail or coin.

Product Information

The card stock must be coated to seal the stock prior to application of the Scratch-Off Ink. Best results will be obtained over a UV varnish. It is necessary to pre-test as not all UV varnishes give satisfactory results. Whilst not recommended, satisfactory results can also be obtained over a Litho varnish or a specially formulated Nitrocellulose based Silk Screen varnish, e.g. D420-A170. **A Litho or Silk Screen varnish must be allowed to dry for at least 24 hours before applying the Scratch-Off Ink.**

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	60T to 75T mesh recommended.
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	15-25 Square meter per kg.
Opacity	All colours are opaque.
Colour Range	Pale Gold; Silver; Rich Gold; Metallic shades based on silver are possible. We have made on an experimental basis – white, black, grey and red. These will probably require a double coating as they are not as opaque as the metallic colours
Drying	By solvent evaporation. Air-dry in 10 to 20 minutes depending on ambient conditions. Force dry in seconds at temperatures of 40°C - 70°C. Use of excessive heat may cause the ink not to scratch off.
Thinners	Ink may be thinned with 5 to 15% of N665-S149 Scratch Off Retarder. Do not use any other thinner.

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manufacturing under licence to NAZDAR

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Clean Up N660-S344 Universal 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 SO Series 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 2 years from date of manufacture. Stir well before use.

Special Notes Stir well before use as the metallic powders and pigments used are very heavy and will settle on standing.

Warning If it is attempted to use Scratch-Off Inks over a Litho Varnish or a specially formulated Screen Varnish, **these must be allowed to dry for a minimum of 24 hours before over-printing.**

After drying for 24 hours, print only a few test sheets with Scratch-Off Ink. Allow to air dry for 2 hours or 30 minutes after force drying. Check Scratch-Off.

If the base varnish is not 100% dry, re-solubility can occur and cause the Scratch-Off to adhere to the base varnish and lose its ability to scratch off.

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.

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Last date amended: 7 February 2023