

Fast Cure UV Scratch-Off Varnish

Code Ref: D493-A142

technical information and application instructions

Substrates	Coated paper and card stocks.
End Uses	Sealing varnish for scratch-off inks as used for lottery tickets, phone and cell phone cards, and game cards.

Product Information

D493-A142 is specifically formulated as a very hard, fast curing varnish to be applied to plain or printed areas of scratch-off cards to prevent the scratch-off ink keying to the base stock.

User 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 the end of the document.

Mesh	140 T mesh is 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	70 - 90 square meters / kilo.
Printing	<p>D493-A142 is formulated to print from the container. This varnish will maintain optimum print and cure performance when the varnish temperature is in the range of 21° - 32°C. Temperatures below 21°C will increase the varnish viscosity, impairing both flow and cure.</p> <p>If the container is taken from a cold storage area it is best to mix on a high speed mixer until it returns to proper temperature, if this is not possible allow to acclimatize in a warm area before use. Elevated temperatures will lower the ink viscosity thereby reducing the applied film weight which may impair scratch-off characteristics. Always mix well prior to each use.</p>

[continued...]

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Curing D493-A142 is formulated to cure when exposed to a medium pressure mercury vapour lamp set at 200 watts/inch at a belt speed of 25 – 30 meters/min.

Beware of stray UV light in and around the printing facility, this can result in the appearance of drying (curing) in the screen during a long run. Be aware of skylights, windows and overhead lights possibly causing curing in the screen. Precautions include the use of light filters that block out damaging wavelengths.

If varnish is left on the screen while not printing (lunch breaks etc.) it is advisable to cover the screen with black plastic sheeting.

Clean Up D574 S016 Special UV Screen Wash

Precautions It is vital that the coating on the card is firmly anchored to the base stock; “loose” coatings can bond more strongly to the UV varnish than the base board and can cause scratch-off failure as the varnish, under heavy scratching, will break up and remove the loose coating.

General Guidelines

Storage Store in a cool dry place. Ensure all partially used buckets are properly resealed. Only use black buckets for storage to prevent premature curing due to light permeating the container.

Shelf life is 2 years from date of manufacture.

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 4 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.

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

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: 23 November 2011