

SCF Scratch Off inks are specially formulated to be printed on lottery tickets and games that are typically given away by retail outlets. This ink forms a very opaque film that hides the “prize” until the ink is removed by scratching with a fingernail or coin.

The card stock must be coated with a UV curable screen print clear such as the PSLC 294 UV Litho Clear to seal the cardstock prior to the application of SCF Scratch Off inks. An under-print of a clear provides the best adhesion and scratch-off properties of the SCF Scratch Off inks.

**SUBSTRATE** Card 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** 110-195 tpi (43-77tpcm) monofilament polyester mesh for most applications

**STENCIL** Solvent resistant direct emulsions and capillary films

**SQUEEGEE** 60-80 durometer polyurethane squeegee

**COVERAGE** 600-1,000 square feet (55 - 93square meters) per gallon depending upon ink deposit

**PRINTING** SCF Scratch Off inks are formulated to be press ready. Add only enough ink to the screen to be able to print for 5-10 minutes. Add additional ink in small increments throughout the print run to maintain screen stability. Thoroughly mix the inks prior to printing.

A heavier ink deposit will provide increased opacity.

Maintain ink temperatures at 65°-90°F (18°-32°C) for optimum print performance. Lower temperatures increase the ink viscosity, impairing both flow and drying. Elevated temperatures lower the ink viscosity, film thickness and opacity.

Pretest to determine optimum printing performance for a particular set of ink, substrate, screen, press, and drying variables/conditions.

**DRYING/  
CURING** SCF Scratch Off inks dry by solvent evaporation and will air dry in 10 to 20 minutes depending on ambient conditions. Force dry in seconds at temperatures of 90 F° to 160 F° (32 C° to 71 C°.) Use of excessive heat may cause ink not to scratch off. Good air circulation is necessary to remove the vaporized solvents.

**CLEAR /  
VARNISHES** Clear Coat: Print PSLC 294 UV Litho Clear beneath the SCF Scratch Off inks to seal the card stock to provide a surface that can be scratched without damaging the underlying graphic.

For best results, print PSLC 294 UV Litho Clear through a 355-380 tpi (140-150tpcm) mesh and cure at 140-160 mJ/600+ mW.

Prior to a full production run, it is the responsibility of the printer:

- To test the adhesion characteristics on the card stock with PSLC294 UV Litho Clear.
- To test the clear\varnish chosen in combination with the SCF Scratch Off inks for ease of scratch off within 24 hours and over the expected life time for the printed pieces.

### ADDITIVES

All additives should be thoroughly mixed into the ink before each use. Prior to production, test any additive adjustment to the ink for performance and opacity.

Thinner: Use 5500 Thinner to reduce the viscosity of this ink. Add up to 10% by weight.

### CLEAN UP

Screen Wash (Prior to Reclaim): Use IMS202 Universal Graphic Screen Wash

Press Wash (On Press): Use IMS301 Premium Graphic Press Wash

### STORAGE

Store tightly covered at temperatures between 65°-90°F (18°-32°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

## GENERAL INFORMATION

### INK HANDLING

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

## PRODUCT OFFERING

### PACKAGING

All items listed below are available in gallon containers.

Stock Number	Scratch Off Inks	Stock Number	UV Litho Clear
SCF32	Scratch Off Gold	PSLC294	UV Litho Clear
SCF35	Scratch Off Silver		

### PACKAGING

Additive/Reducer is available in gallon containers.

Cleaners are available in gallon containers.

Stock Number	Additives/Reducers	Stock Number	Clean Up
5500	Thinner	IMS202	Universal Graphic Screen Wash
		IMS301	Premium Graphic Screen Wash

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® 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 Nazdar®.

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.

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