

PSLC294 UV Litho Overprint Clear is a UV clear coat that has been formulated to yield a very durable and flexible film that exhibits an exceptional gloss finish. PSLC294 is designed to screen print over previously offset printed paper and cardstock.

SUBSTRATES Coated paper and cardstock

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 305-420 tpi (120-165 tpcm) monofilament polyester mesh for most applications

STENCIL Solvent resistant, UV ink compatible direct emulsions and capillary films

SQUEEGEE 70-90 durometer polyurethane squeegee

PRINTING PSLC294 UV Litho Overprint Clear is formulated to be press ready. Thoroughly mix the ink prior to printing.

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

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

The ink can be affected by stray UV light. Be aware of skylights, windows and overhead lights curing the ink in the screen. Leaving a container uncovered may result in the ink's surface forming a "skin," caused by initial chemical reaction with room lighting or other stray lights. Keep containers covered. Light filters are recommended.

CURE PARAMETERS PSLC294 UV Litho Overprint Clear cures when exposed two medium pressure mercury vapor lamps set at 200 watts per inch with a conveyor speed 100 to 125 feet per minute. This guideline is intended only as a starting point for determining cure parameters, which must be determined under actual production conditions.

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

Reducer: Use RE302 to reduce the viscosity of these inks. Add up to 15% by weight.

Flexibilizer: Use RE308 to increase the flexibility of these inks. Add up to 15% by weight.

There is no pot life; however, the addition of RE308 could show a decrease in block resistance.

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

Direct skin contact to UV inks is the primary route of exposure and irritation. Therefore, it is recommended that all personnel handling these products wear gloves and barrier cream to prevent direct skin contact. Safety glasses are suggested in areas where ink may be splashed. If ink does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or reducer). Wash the affected area with soap and water. Consult the Material Safety Data Sheet for further instructions and warnings.

PSLC294 UV Litho Overprint Clear is a one-part, 100% solids UV-curable screen printing ink and does not contain N-vinyl-2-pyrrolidone (trade name V-Pyrol®).

ADHESION TESTING

Even when recommended UV energy output levels are achieved, it is imperative to check adhesion on a **cooled down** print:

1. Touch of ink surface – the ink surface will be smooth and slick.
2. Thumb twist – the ink surface will not mar or smudge.
3. Scratch surface – the ink surface will resist scratching.

WEATHERING / OUTDOOR DURABILITY

PSLC294 UV Litho Overprint Clear is not recommended for outdoor use.

PACKAGING

PSLC UV Litho Overprint Clear is available in gallon containers.

PACKAGING

Additives/Reducers are available in quart containers
Cleaners are available in gallon, 5 gallon and 55 gallon containers

Stock Number

Additives/Reducers

RE302	UV Reducer
RE308	UV Reducer (<i>Flexibilizer</i>)

Stock Number

Cleaners

IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press 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, this product is formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

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