

NSC43 UV Lens Clear Screen Ink is specifically formulated to print over textured polycarbonate and polyesters used as membrane overlays to create a clear window.

NSC43 is designed for top or first surface printing and cures to a hard, mar-resistant finish.

**SUBSTRATES** Textured Polycarbonate and some polyesters

## 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** 355 threads per inch (140 threads per centimeter) or lower monofilament polyester mesh for most applications

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

**SQUEEGEE** 70-80 durometer polyurethane squeegee

**COVERAGE** 2500-3500 square feet (232-325 square meters) per gallon depending upon ink deposit

**PRINTING** NSC43 ink 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** NSC43 cures using a medium pressure mercury bulb commonly used in curing UV-curable ink systems. Cure speeds will vary depending on ink deposit, curing unit conditions and substrate.

**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 RE304 Reducer to reduce viscosity. Add up to 10% by weight.

**CLEAN UP** *Screen Wash (Prior to Reclaim):* Use IMS203 Economy Graphic Screen Wash or IMS207C Graphic Recirculating 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

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 NSC43 Material Safety Data Sheet for further instructions and warnings.

NSC43 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
4. Cross hatch tape test – use a cross hatch tool or a sharp knife to cut through ink film only; then apply 3M #600 clear tape on cut area, rub down, wait for 1 minute and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

Full adhesion characteristics are demonstrated within 4 hours after cure.

## PRODUCT OFFERING

### PACKAGING

NSC43 UV Lens Clear is available in quart and gallon containers.

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Additives/Reducers are available in quart and gallon containers.  
Cleaners are available in 1-gallon, 5-gallon and 55-gallon containers.

Stock Number	Additives/Reducers	Stock Number	Cleaners
RE304	Reducer	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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