

NSC51 UV Air Texture Clear Screen Ink is specifically designed to give a decorative texture effect. Texture may vary from fine to very coarse depending on the screen mesh. Gloss may also vary depending on screen mesh, substrate and background color.

Very fine to very coarse textures may be achieved by varying the mesh. Lower mesh counts provide a coarser texture effect and higher mesh counts provide a finer texture effect.

SUBSTRATES Polycarbonate, pre-treated polyester and other plastic films

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 - 420 threads per inch (43 – 165 threads per centimeter) monofilament polyester mesh for most applications

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

SQUEEGEE 70-90 durometer polyurethane squeegee

COVERAGE 1500-3000 square feet (139 – 279 square meters) per gallon depending upon ink deposit

PRINTING The NSC51 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. Temperature may affect the texture, with higher temperatures producing finer texture. 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 in and around a printing facility. Be aware of skylights, windows and overhead lights curing the ink in the screen. Light filters are recommended.

CURE PARAMETERS The NSC51 ink cures when exposed to a medium pressure mercury vapor lamp set at 300 watts per inch with at least 200 millijoules (mJ/cm²) and 600 milliwatts (mW/cm²) of UV energy. Proper cure depends on several factors such as ink film thickness, color of ink, color of background, substrate, condition of curing unit, to name a few. These guidelines are intended only as a starting point for determining cure parameters, which must be determined under actual production conditions. To increase millijoule levels, slow down the belt speed or scan speed. To increase milliwatt levels, increase the wattage setting of the UV reactor. To optimize millijoule and milliwatt output, maintain the bulb and reflector condition and focus to the substrate. The values mentioned above are representative of measurements taken using an EIT UVICURE Plus radiometer measuring the UVA bandwidth (320-390 nm). To obtain accurate readings with the UVICURE Plus, reduce the belt speed to less than 40 ft/min.

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 This ink reacts to light and temperature. 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 NSC51 Material Safety Data Sheet for further instructions and warnings.

The NSC51 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:

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 24 hours after cure.

PRODUCT OFFERING

COLOR CARD MATERIALS

The following is a list of screen printed samples available.

UV Texture Clears Color Card: shows all standard UV texture clears available, including air texture clears and nitrogen texture clears.

PACKAGING

NSC51 is available in one kilogram and gallon containers.

Cleaners are available in gallon, 5 gallon and 55 gallon containers.

Stock Number	Description	Stock Number	Cleaners
NSC51	Air Texture Clear	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, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

Nazdar Worldwide Headquarters
8501 Hedge Lane Terrace, Shawnee, KS 66227-3290 USA
Toll Free: 866.340.3579 or Tel: 913.422.1888 Fax: 913.422.2296
e-mail: custserv@nazdar.com

Nazdar Limited
Barton Road, Heaton Mersey, Stockport, England SK4 3EG
Tel: + (44) 0.161.442.2111 Fax: + (44) 0.161.442.2001
e-mail: technicalservicesuk@nazdar.com

<http://www.nazdar.com>