

667702KI Special Mirror Silver Screen Ink is a solvent-based ink for printing second surface on transparent polycarbonate film. The ink film exhibits a mirror-like reflective surface when viewed through the top or first surface of the polycarbonate film.

Adhesion of the ink to substrates other than polycarbonate must be tested prior to any production run. The Mirror Silver Ink is not compatible with laminating adhesives. See section on Overprint.

The thoroughly dried ink film may be overprinted with 9700 Series solvent or 1500 Series UV inks for further protection. Overprinting the mirror ink with other ink systems is not recommended.

SUBSTRATES Polycarbonate

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 - 380 threads per inch (120 - 150 threads per centimeter) monofilament polyester mesh for most applications

STENCIL Solvent resistant 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 The 667702KI Special Mirror Silver ink is 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. The ink must be mixed at low shear.

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

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

DRYING 667702KI ink dries by solvent evaporation. The ink may be dried at room temperature or dried in a 140°F (60°C) oven for at least 15 minutes. Drying at higher temperatures may affect the mirror-like appearance. The ink must be thoroughly dried for optimal properties. Due to varying ink deposits and production equipment, it is recommended that the printer evaluate the drying time and temperature that will allow the maximum reflectance for the specific application. Good air circulation is necessary to remove the vaporized solvents.

OVERPRINT *Overprints:* The Nazdar 9700 Series solvent ink or the 1500 Series UV ink may be printed over a thoroughly dried 667702KI. Refer to each ink systems Technical Data Sheet for more information regarding these inks. Overprinting with a clear or solid color ink will provide some protection to the metallic layer. Due to pigment load and nature of metallic pigments, the 667702KI may not exhibit satisfactory adhesion to the substrate and overprints will not pass tape and cross hatch tape tests. The absence of overprint will not affect the mirror effect. Overprinting with other ink systems may cause incompatibility which affects the mirror finish; test thoroughly.

Due to the nature of metallic pigments used in these types of products, the layer of mirror silver may not pass tape and cross hatch tape tests. The metallic pigment has the tendency to split or parts will lift off upon removal which makes the mirror layer the weakest interface. It is the printer's or end user's responsibility to pre-test prior to any production run to determine acceptability of the printed part to end use requirements.

CLEAN UP

Screen Wash (Prior to Reclaim): Use IMS201 Premium 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.

INK HANDLING

All personnel mixing and handling this product 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 667702KI Material Safety Data Sheet for further instructions and warnings.

PRODUCT OFFERING

COLOR CARD MATERIALS

The following is a list of screen printed samples available.
Special Effects Color Card: shows the 667702KI Special Mirror Silver Ink, Metallic, Pearlescent, Interference, and Multi-Chromatic effects mixed with clear

PACKAGING

667702KI is available in one kilogram and gallon containers.

PACKAGING

Cleaners are available in 1-gallon, 5-gallon and 55-gallon containers.

Stock Number	Clean Up
IMS201	Premium Graphic Screen 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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