

70000 Series Plasti-Vac Gloss Screen Ink

Code Ref: 431 | 438

technical information and application instructions

Substrates Polystyrene, rigid vinyl, acrylics, CAB

End Uses Point-of-sale displays and signage

Product Information

Plasti-Vac 70000 Series has been designed as a general purpose printing ink. These inks have excellent adhesion to such surfaces as acrylics, cellulose acetate butyrate, styrene and rigid vinyl. Due to substrate variations, pretest for adhesion before commencing bulk production. 70000 Series Inks have been formulated to reduce static problems often encountered with acrylic inks. 70000 Series Inks were formulated for vacuum forming with deep draw. Please check to determine the suitability for the depth of draw desired. Adhesion and gloss are normally improved by vacuum forming.

Application 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 end of document.

Mesh 75-130T monofilament polyester.

Stencil All direct photo emulsions, photo stencil films and hand cut stencil films that are solvent resistant.

Squeegee 70-80 durometer polyurethane blades as well as triple durometer blades that produce an even ink deposit.

Coverage 30-50 sqm/kg depending on mesh used.

Printing To improve flow or accelerate drying, reduce the ink with 10-15% weight of N565 S370 Thinner or N565 S372 Retarder. Over reduction with retarders can result in blocking. Always mix well prior to each use.

Drying By solvent evaporation. Air dry in approximately 20 to 40 minutes. May be jet dried at 30-500 C to dry within seconds.

Clean Up N565 S374 Plasti-Vac Screen Wash or N660 S344 Screen Wash or N665 IMS 201 Premium Graphic Screen Wash.

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Cleaners / Extenders / Additives

70-170 Clear N504 S030 is an excellent carrier for silver and gold and shows a minimum tendency to discolour bronze powders. Approximately 80g of aluminium powder or 160g of gold bronze is required per 1kg of clear. Dampen powder with N565 S370 Plastivac Thinner and then thoroughly mix the paste into the Clear. Shelf life once mixed may be limited therefore mix only quantities needed for immediate use.

General Guidelines

Ink Handling All personnel mixing and handling inks must wear gloves and eye protection. Clean up spills immediately. If ink does come in contact with skin, wipe off with a clean, dry, absorbent cloth (do not use solvent or thinner). Wash and rinse affected area with soap and water. Consult the 70000 Series Plastivac SDS for further instructions and warnings.

Adhesion Testing Test adhesion as follows:

1. **Touch of ink surface** – The ink will be smooth and slick.
2. **Thumb twist** – The ink surface will not mar or smudge.
3. **Scratch surface** – The ink will resist scratching.
4. **Cross hatch tape test** – use a cross hatch tool or a sharp knife to cut through the ink film only, apply 3M #600 clear tape to the cut area, rub down, wait for 1 minute and rip off at a 180° angle. Ink should only come off in the actual cut area.

Storage Store tightly covered at temperatures between 15°C - 32°C. Ink taken from the press should not be returned to the original container. Store separately to avoid contaminating unused ink.

Shelf life of unopened cans is 2 years from date of manufacture. Stir well before use. Shelf life of the catalyst is 1 year from date of manufacture in a sealed container.

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caution

Please proof this ink, reduced to the consistency you wish to adopt, on a sample of the ACTUAL SUBSTRATE you will be printing BEFORE starting a production run.

Give the proof 24 hours to post cure then check for: Abrasion resistance, adhesion, print appearance and correctness of colour. The adequacy of this ink in these properties cannot be fully established on laboratory equipment on a small scale.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapour or spray mist. Keep container closed when not in use.

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

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Last date amended: 7 February 2023