

Plastic Plus Series Gloss Vinyl Screen Ink

Code Ref: 425

technical information and application instructions

Substrates	PVC, acrylic, vinyl films and sheets, print-treated polyester, ABS and styrene.
End Uses	Great for long-term exterior performance on plastic signage and displays requiring vacuum formability, abrasion, and water resistance.

Product Information

Plastic Plus Series is a solvent-based ink specially formulated for printing on a wide variety of vinyl and vinyl coated plastic surfaces where a high gloss finish is required. PP Series inks will form a positive bond with most plastic surfaces and will dry to an extremely opaque and flexible film suitable for vacuum-forming. Plastic Plus Series can be formulated for extended outdoor use on request.

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	75T – 140T mesh recommended.
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 Square meters per kg. 90T – 120T
Printing	To improve flow, reduce the ink at 15% - 20% by weight with N565-S370 Plastivac Thinner. To improve on-screen stability during hot climate conditions or for slower drying, reduce the ink with a blend of 10% - 15% N565-S370 Thinner and a 5% N565-S372 Plastivac Retarder. Do not exceed recommended levels of reduction. Over reduction with retarders can result in blocking. Always mix well prior to each use.
Drying	Plastic Plus Series will air dry in 15-20 minutes and force dry in a dryer with temperatures from 35-65OC within seconds. Drying times are dependent on ink deposit and air flow.

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Metallics Metallic pigments may be added to the inks as a component of a colour match or to Plastic Plus Series Mixing Clear. Due to possible limited shelf life, only mix quantities of metallic ink need for immediate use. Leafing pigments may also show incompatibility to the ink. Excessive amounts of metallic powder will degrade adhesion and the overall performance of the printed ink.

Clears / Extenders **Thinner** – N565-S370 Plastivac Thinner may be added to reduce the viscosity of these inks. Add approximately 15% - 20% by weight.

Retarder – N565-S372 Plastivac Retarder may be added at 5% by weight to an already reduced ink to improve on-screen stability during hot climate conditions or for slower drying.

Clears – Plastic Plus Series Mixing Clear may be used to reduce colour strength or as a metallic mixing varnish. PP Overprint Clear is for overprinting printed pieces. Plastic Plus Series Flattening Paste may be added to prevent blocking on highly plasticized substrates and may also be added to reduce gloss. Add at 10% - 20% by weight.

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 Plastic Plus Series SDS for further instructions and warnings.

Adhesion Testing **Cross hatch tape test** – use a cross hatch tool or sharp knife to cut through the ink film only. Apply 3M#600 clear tape on cut area, rub down and rip off. Ink should only come off from actual cut areas.

Fingernail scratch test – thoroughly dried ink will resist scratching.

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 5 years from date of manufacture. Stir well before use.

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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.

[end]

Last date amended: 7 February 2023