



TECHNICAL DATA SHEET

NAZDAR®

TECHNICAL INFORMATION AND APPLICATION INSTRUCTIONS

PP SERIES PLASTIC PLUS GLOSS VINYL SCREEN INK CODE REF: 425

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

PP 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. PP Series can be formulated for extended outdoor use on request.

APPLICATION INFORMATION

MESH 75T – 140T mesh recommended.

STENCIL All direct photoemulsions, photostencil 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 meter per kg.

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 PP Series will air dry in 15-20 minutes and force dry in a dryer with temperatures from 35-65°C within seconds. Drying times are dependent on ink deposit and air flow.



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**CLEARs/
EXTENDERS/
ADDITIVES**

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 – PP Mixing Clear may be used to reduce colour strength or as a metallic mixing varnish. PP Overprint Clear is for overprinting printed pieces. PP 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.

**METALLIC
COLOURS**

Metallic pigments may be added to the inks as a component of a colour match or to PP 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.

**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.

CLEAN UP

Use N660 S344 Screen Wash or N615 IMS 201 Premium Graphic Screen Wash for cleaning ink from the screen.

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 PP Series Material Safety Data Sheet for further instructions and warnings.

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.

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 dry out 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.

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.

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.