

MPS Series Solvent is a high performance, incredibly durable, scratch resistant, and flexible solvent-based screen printing ink formulated specifically for multiple substrate adhesion. This series exhibits outstanding adhesion to a wide variety of common POP/POS substrates. With exceptional adhesion characteristic, post-press finishing operations such as die cutting, CNC routing, saw cutting and guillotine trimming, can be performed with minimal edge chipping or loss of ink adhesion to material. The distinctive characteristics of MPS allows for heat bending on many plastic materials. Made with only the finest long term outdoor pigments, MPS provides an excellent product for outdoor constructions.

Performance Properties

- Extremely broad range of adhesion
- Flexible for multi-layer constructions
- Brilliant color array and high densities
- Non-blocking for two sided constructions
- Scratch resistant
- Water resistance
- Excellent post-print finishing
- Heavy metal free

Recommended Substrates

- ABS
- Aluminum and painted metal sign materials
- Cardstock
- Corrugated Plastic
- Expanded PVC (Sintra®, Celtec®)
- Foam core
- High impact styrene
- HDPE
- PETG
- PET films
- Polycarbonate
- Polyethylene banner
- P.S vinyl and reflective vinyl
- Magnetic vinyl
- Rigid vinyl
- Many other POP/POS materials

Curing/Processing Guidelines

MPS series solvent typically air dries in 15-20 min depending on mesh. Force drying is 30-45 seconds at 140 degrees F to 176 degrees F. the MPS series solvent, when properly cured develops an extremely durable and flexible ink film. Even though the cured ink film has been engineered to optimize processing and handling, the printer must assume responsibility for pre-testing and qualifying production parameters prior to printing.

The amount of ink film deposit, weight or caliper of the material and/or elevated ambient temperatures and humidity of the printing and storage environments will influence some media.

Light Fastness

At full strength and cured properly, MPS Multi-purpose solvent inks are formulated to withstand up to 2 years of exterior exposure. Use UMP overprint clear for extended weatherability and to improve the non-tarnishing properties of the product. Factors that will alter the outdoor durability of the ink include but are not limited to: substrate with a dyne level below 38, poor cure of the ink film, directional positioning, ink film deposit, exposure to excessive abrasives and air pollutants.

Printing

Mix well prior to use. While supplied in press ready condition, MPS series solvent may be reduced up to 10% to 15% with #23521 MPS thinner, or up to 10% with #23521 MPS fast thinner. For additional screen open time, the use of #23522 MPS retarder can be added 3% to 5% by weight. Care should be taken to print the ink at optimal temperature 70-90 degrees F. Cool ink will have heavier viscosity and will not flow properly. Hot ink will be lower in viscosity resulting in poor definition and decreased opacity.

Coverage

1500-2000 square feet per gallon based on ink deposit .40 - .60 mil dependent on color and printing conditions.

Storage

Care should be taken to store ink in tightly closed containers located in a cool (60-80°F/15-27°C) dark place. After long production runs excess ink from the screen should be properly disposed. With suitable conditions, unopened ink is expected to have a shelf life of approximately twelve (12) months from date of manufacturer.

Metallic's

Use the Metallic Mixing Clear to prepare metallic ink as its increase viscosity helps insure a good particle suspension and extended shelf life.

Recommended mixing ratios, by weight are:

- 28% gold paste
- 12% silver paste

Precautions

Read the material safety data sheet prior to processing. It contains instructions for precautions to be taken when handling inks. If ink comes in contact with skin wipe off with a clean, dry cloth (do not use solvent). Wash and rinse the affected areas with soap and water.

Color Availability

MPS multi-purpose solvent is available in opaque standard colors. Custom matches, metallic, fluorescent and transparent colors are obtainable upon request.

MPS-101 Primrose Yellow	MPS-210 Ultra Blue
MPS-111 Lemon Yellow	MPS-220 Emerald Green
MPS-123 Medium Yellow	MPS-225 Forest Green
MPS-131 Brilliant Orange	MPS-226 Lime Green
MPS-135 Vivid Orange	MPS-235 Teal
MPS-141 Fire Red	MPS-240 Purple
MPS-151 Scarlet Red	MSP-260 Brown
MPS-155 Rubine Red	MPS-301 Opaque Black
MPS-160 Rhodamine Red	MPS-311 Opaque White
MPS-180 Warm Red	MPS-312 Jet Black
MPS-190 Process Blue	MPS-026 Brilliant White
MPS-200 Peacock Blue	MPS Mixing/Overprint Clear
MPS-205 Reflex Blue	MPS Metallic Mixing Clear

Pantone Matching System® Colors

The nine PANTONE® approved Color Matching System (CMS) shades are used to simulate the PANTONE® Color Specifier colors. Formulas were designed for maximum opacity and are available in book or Imaging Color source Software formats

MPS-064 CMS GS Yellow	MPS-066 CMS RS Yellow
MPS-114 CMS Orange	MPS-121 CMS YS Red
MPS-164 CMS BS Red	MPS-165 CMS Magenta
MPS-127 CMS Violet	MPS-230 CMS Blue
MPS-325 CMS Green	MPS Tinting White
MPS Shading Black	MPS Mixing/Overprint Clear

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We strongly recommend a preliminary test of printing and curing on the supports intended to use, in order to ascertain exactly the procedure, the working times and the obtained effect. **MIX WELL BEFORE USE.** Follow the directions on the package, ask for the safety data sheets and always follow the directions contained therein.

Important – Only the correct use of the product will allow satisfactory results. For this reason, closely related to the product supplied, Polymeric must decline all direct and indirect responsibility for the proper or improper use of the product. Make certain that product is right for the desired use, work according to the instructions given in our technical data sheets. Before use contact our Technical Service in case of doubt.

A. Warranty Liability Limited to Purchase and Installation Costs

Notwithstanding anything provided herein or any other written material to the contrary, Polymeric only warrants the purchase price and costs of installation. POLYMERIC SHALL HAVE NO LIABILITY OR OBLIGATION TO ANY USER, BUYER, PURCHASER, DISTRIBUTOR OR OTHER PERSON OR ENTITY FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED, INCLUDING WITHOUT LIMITATION, PERSONAL INJURY, LOSS OF BUSINESS, LOSS OF PROFIT, OR OTHER DAMAGE, whether or not buyer shall have informed Polymeric of the possibility or likelihood of any such damages.

B. Limitation of Implied Warranty and Fitness for a Particular Purpose



MPS Solvent

Multi Purpose Solvent

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