



DecoPrint SS

Decoprint SS is a one-part screen ink developed with the needs of the container printer in mind. This unique UV ink adheres to HDPE, PET, PVC and PP without the use of adhesion promoters or catalysts. DecoPrint was developed for high speed container printing at higher internal press temperatures (120° Fahrenheit); it's unique rheology prevents drip-through and bleed, as well as static. The ink also resists common chemicals used in health and beauty products, including isopropyl alcohol.

Features

- Cures with hard surface for immediate packaging
- Distinct rheological properties for smooth prints
- Unequaled adhesion to PE, PP, and PET
- No flame required for PET adhesion
- Superb water and chemical resistance
- Opaque, non-yellowing bright white

Printing

Mix the ink well prior to use. While supplied in press ready condition, DecoPrint may be reduced up to 10% with #1004 Universal Thinner. Care should be taken to print the ink at an optimal temperature of 70-90°F (21-27°C). Cool ink will have heavier viscosity and will not flow properly.

Curing

Ink will cure well when printed through 305 - 380 (120 - 150cm) plain weave polyester mesh or finer. DecoPrint's optimal cure window of 125 - 150 mJ / 550 - 650 mW, is generally achieved with one 300 watt per inch mercury vapor lamp at press speeds up to 70 containers per minute. Cure speeds may vary as thicker material and dark surface colors require more energy. Adhesion should be a minimum of 95% from curing unit, with final adhesion developing within four hours of initial polymerization. Coarser fabrics can be utilized; however, cure parameters may need to be adjusted for increased ink film. If a loss of gloss or adhesion due to insufficient cure is noticed, the use of 5 - 10% DecoPrint Overprint/ Mixing Clear will increase light penetration and improve cure in opaque colors without viscosity reduction.

Recommended Substrates

For best results, the following require a flame treatment prior to printing:

- High Density Polyethylene
- Low Density Polyethylene
- Polypropylene

No flame is required for:

- PVC
- PET

Coverage

3,200 to 3,600 square feet per gallon based on ink deposit of .40 – .60 mil dependant on color and printing conditions.

Water Resistance

DecoPrint has passed all laboratory conducted water immersion / wet flex tests. Printed bottles were tested immediately, as well as after a 24 hour 'post cure' period. This period, between curing and testing, provides the ink film and substrate time to stabilize, thereby improving adhesion properties.

Chemical Resistance

Properly cured, DecoPrint ink successfully withstood chemical testing (50 pass, double rub) with oil / gasoline mixture, ammonia, Windex™, bleach, and 99% strength isopropyl alcohol. To determine suitability of the ink for intended use, a chemical test prior to production is recommended.

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 manufacture.

Metallics

Use the Metallic Mixing Clear to prepare metallic ink as its increased viscosity helps insure a good particle suspension and extended shelf life. Recommended mixing ratios, by weight are:

- 28% gold paste
- 12% silver paste

For optimum coverage and opacity, 280 - 305 (110 - 120cm) plain weave mesh is recommended.

Additives

- 1004 Thinner, up to 10% as needed
- 1534 Adhesion Promoter, up to 3% as needed

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 ink off with a clean, dry cloth (do not use solvent). Wash and rinse the affected area with soap and water.

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 Technical Service in case of doubt.

Color Availability

DecoPrint is available in eight opaque standard colors. Custom matches, metallic, fluorescent and transparent colors are obtainable upon request.

SS-111 Lemon Yellow	SS-220 Emerald Green
SS-131 Brilliant Orange	SS-301 Opaque Black
SS-141 Fire Red	SS-311 Opaque White
SS-155 Rubine Red	SS-312 Dense Black
SS-160 Rhodamine Red	SS-026 Brilliant White
SS-205 Reflex Blue	SS Overprint Clear
SS-210 Ultra Blue	SS 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.

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

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