

Lazer LXII is a UV curable ink specifically formulated for printing on many difficult to adhere to surfaces. LXII has the ability to adhere, without the use of additives, to fluted polypropylene and high density polyethylene. LXII also offers excellent water resistance without the use of waste producing additives.

Performance Properties

- Adhesion to fluted plastic signage and most coated metals
- Durable, scratch resistant
- Large range of standard opaque colors
- Solar Shield Clear for extended outdoor durability
- Superior print quality
- Water resistant without additives

Recommended Substrates

- ABS
- Anodized Aluminum
- Fluted Polypropylene
- High Density Polyethylene
- Many coated metals
- Polystyrene
- Rigid Vinyl

Curing/Processing Guidelines

Ink will cure well when printed through 355 (140cm) plain weave polyester mesh or finer. LXII's optimal cure window of 175 - 200 mJ/ cm² 550 - 650 mW/ cm² is generally achieved with one 200 watt per inch mercury vapor lamp at a belt speed of 50 - 60 feet per minute (20 - 30 m / min). Cure speeds may vary as thicker material and dark surface colors require more energy. HDPE requires 350 mjs achieved with one 300 watt bulb at 30 feet (10 m).

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% LXII Mixing Clear will increase light penetration and improve cure.

Light Fastness

At full strength and cured properly, LXII colors are formulated to withstand up to two years of exterior exposure. Factors that will alter the outdoor durability of the ink include but are not limited to: substrate grade/age, poor cure of the ink film, formulas, directional positioning, ink film deposit, exposure to excessive abrasives and air pollutants. Some resin systems may chalk after a given time period and require a clear for extended outdoor durability.

Care should be taken when reducing the mass tone* colors with clear or tinting white as this could negatively affect the exterior durability of the color. Colors that should not be used for outdoor applications are: CMS 164 BS Red, CMS 114 Orange, 180 Warm Red and 131 Brilliant Orange. Automotive grade color alternative recommendations are available by calling our Technical Services Department. *Mass tone: the full product color without dilution.

ROLLER COATING

- 20047 SP RC Solarshield Overprint Clear

SCREEN

- 7938 SP LXII Solarshield Overprint Clear

Printing

Mix well prior to use. While supplied in press ready condition, LXII may be reduced up to 10% with LXII Thinner for special viscosity adjustments. Care should be taken to print the ink at optimal temperature 70 - 90° F (21 - 27° C). Cool ink will heavier viscosity and will not flow properly. Hot ink will be lower in viscosity resulting in poor definition and decreased opacity.

Coverage

3,200 to 3,600 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. With suitable conditions, unopened ink in 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.

Recommended mixing ratios, by weight are:

- 28% gold paste
- 12% silver paste

For optimum coverage and opacity, 280-305 (110 - 120cm) plain weave mesh. Use DF Overprint Clear for extended weatherability and to improve the non-tarnishing properties of the product.

Additives

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

Precautions

Read the 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.

Process Printing

For superior halftone reproduction, Lazer LXII halftones are available in a range of density levels. Additional control of density may be achieved with use of DF HT Base. For best results, use 380 (150cm) or finer and a smooth, thin stencil coating should be utilized with process printing.

	Press Ready	High Density	Backlit Density
LXII Halftone Yellow 0.90	1.10	1.35	
LXII Halftone Magenta	1.40	1.75	2.05
LXII Halftone Cyan	1.40	1.80	2.20
LXII Halftone Black	1.60	2.00	2.25

Color Availability

Lazer LXII is available in twenty opaque standard colors. Custom matches, metallic, fluorescent and transparent colors are obtainable upon request.

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

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

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We strongly recommend testing complete construction as per shop conditions prior to full production. 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.

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