



# Lazer LXII Series

**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
- Water resistant without additives
- Large range of standard opaque colors
- Durable, scratch resistant film
- Superior print quality
- Solar Shield Clear for extended outdoor durability

## 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 have heavier viscosity and will not flow properly whereas 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 of .40 – .60 mil dependant on color and printing conditions.

## Curing

Ink will cure well when printed through 355 (140cm) plain weave polyester mesh or finer. LXII's optimal cure window of 175 - 200 mJ / 550 - 650 mW is generally achieved with one 200 watt per inch mercury vapor lamp at belt speeds between 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.

## Recommended Substrates

- Fluted Polypropylene
- High Density Polyethylene
- Anodized Aluminum
- ABS
- Rigid Vinyl
- Acrylic (Plexiglas®)
- Polystyrene
- Many coated metals

Version 1.04.20.2005

## Lightfastness

LXII is lightfast up to one (1) year with a 355/inch or coarser mesh. Weathering tests have been completed and the ink withstood 500 hours of exposure with 4-hour cycle times of light and condensation at elevated temperatures with minimal color change and no shrinkage. To maintain a high gloss finish use LXII Overprint Clear.

Accelerated machine weathering's are reference standards and can not precisely reproduce actual outdoor performance. Based on prior correlation of accelerated testing vs. real time exposure, 500 hours is equated to approximately one year, 45° south Florida.

Water resistance is required for most outdoor applications; tests should be conducted at a minimum of 24 hours after curing. If additional water resistance is required, use 3% - 5% of #1534 adhesion promoter.

## Solar Shield Clear

UV absorbers have been incorporated into the LXII Solar Shield Overprint clear, which lengthen the graphics life by acting as a sunscreen. This clear requires more energy to cure than the normal Lazer LXII color range. A minimum of 225 - 250 mJ is needed.



**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. Use LXII Overprint Clear for extended weatherability and improved non-tarnishing properties of the product.

**Additives**

- 7779 Thinner up to 10% as needed
- 1534 Adhesion Promoter, 3 - 5% 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.

**Process Printing**

For superior halftone reproduction, Lazer LXII half-tones are available in a range of density levels. Additional control of density may be achieved with use of LXII HT Base. For best results, 380 (150 cm) 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

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MIX WELL BEFORE USE. Follow any instructions on the package, ask for the safety data sheets and always follow the instructions contained therein. In case of doubt, please contact our Technical Service Department.

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**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-111 Lemon Yellow
- LXII-123 Medium Yellow
- LXII-131 Brilliant Orange
- LXII-135 Vivid Orange
- LXII-141 Fire Red
- LXII-151 Scarlet Red
- LXII-155 Rubine Red
- LXII-160 Rhodamine Red
- LXII-180 Warm Red
- LXII-190 Process Blue
- LXII-200 Peacock Blue
- LXII-205 Reflex Blue
- LXII-210 Ultra Blue
- LXII-220 Emerald Green
- LXII-225 Forest Green
- LXII-226 Lime Green
- LXII-235 Teal
- LXII-240 Purple
- LXII-260 Brown
- LXII-301 Opaque Black
- LXII-311 Opaque White
- LXII-312 Dense Black
- LXII-026 Brilliant White
- LXII Overprint Clear
- 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-114 CMS Orange
- LXII-164 CMS BS Red
- LXII-127 CMS Violet
- LXII-325 CMS Green
- LXII Shading Black
- LXII-066 CMS RS Yellow
- LXII-121 CMS YS Red
- LXII-165 CMS Magenta
- LXII-230 CMS Blue
- LXII Tinting White
- LXII Mixing Clear

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