

Technical Data Sheet

GE Series II Improved Imitation Mirror (92-671)

GE Series II Improved Imitation Mirror is an exceptional mirror-like product that utilizes vacuum-metallized pigments to provide a bright silver effect when printed second surface on transparent substrates.

Substrates

GE Series II Improved Imitation Mirror gives the brightest results when applied on smooth impervious surfaces.

- Polycarbonate
- Pre-treated polyester

Substrate recommendations are based on commonly available materials intended for the ink's specific market when the inks are processed according to this technical data. 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. Reference the 'Quality Statement' at the end of this document.

Directions for Use

Pretest for adhesion to all substrates prior to production printing, as well as, other properties to determine suitability. Mix well prior to each use.

Surface

A clean dry surface is preferred for superior adhesion.

Mesh

Monofilament polyester or nylon, 200 – 305 mesh per inch recommended.

Stencil

Lacquer proof, most direct or direct/indirect will work well.

Squeegee

An 80 durometer (Shore A Hardness) polyurethane is recommended. It should be well sharpened.

Coverage

Estimated 3,200 – 4,200 square feet (295 – 390 square meters) per gallon depending upon ink deposit. See www.kolorcure.com for examples of coverage calculations.

Screen Wash Up

A special high flash point wash containing no hydrocarbon solvents should be used, such as KOLORCURE'S UVW-80 Screen Wash.

Screening equipment

Hand, semi-automatic, or fully automatic presses.

Additives

When required, additives should be mixed well before each use. Test any additive adjustments to the ink prior to production. Inks containing additives should not be mixed with other inks.

To lower the viscosity which will enhance the transfer of the ink through the screen, use **GE Series Reducer**.

Printing

Mix the ink thoroughly at a low shear prior to printing. Improper mixing can lead to inconsistent color and ink performance.

Ink temperature should be maintained at 65°– 90°F (18°– 32°C) for optimum print and drying performance. Lower temperatures will increase the ink viscosity which impairs flow and increases film thickness and drying time. Elevated temperatures will lower the ink viscosity which reduces print definition and film thickness.

Do not return ink from the press to the original containers to avoid contamination. Store separately.

Curing

GE Series II Improved Imitation Mirror may be dried at room temperature for at least 3 to 5 minutes (drying time depends on mesh used and other factors affecting ink film thickness). Conveyor drying may also be used with temperatures at or below 140°F (60°C). The ink film must be dry to touch. Drying at higher temperatures may affect the mirror-like appearance. The ink must be thoroughly dried for optimal properties.

Storage

GE Series II Improved Imitation Mirror should be stored in a cool dry area: 80°F (27°C) or below. Keep ink away from internal heat sources. Keep containers covered.

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Suitability

GE Series II Improved Imitation Mirror ink is suitable for the following processes:

Cutting

Die-cutting, router cutting, guillotine cutting, and laser cutting.

Handling

The use of goggles, gloves, and protective clothing is recommended. Avoid prolonged breathing of vapors. Contact of liquid material with the skin may be irritating; wash exposed area thoroughly with soap and water. Contact of ink with the eyes may cause injury – effects may be delayed; flush eyes with large amounts of water for 15 minutes and call a physician. Consult the applicable Safety Data Sheet (SDS) for further instructions and warnings.

Adhesion Testing

Due to the nature of the metallic pigments used in this product, the printed ink may not pass tape and cross hatch tape tests as the pigment has the tendency to split or lift off. Overprinting with other ink systems may cause incompatibility which can affect the mirror finish. Be sure to test thoroughly.

Weathering / Outdoor Durability

Outdoor durability cannot be specified exactly. Some color change and loss of gloss is to be expected. Variables affecting a print's durability include:

- Ink film thickness
- Degree of curing
- Color formulation
 - Adding large quantities of mixing base or white to any color
 - Mixing several colors to create a specific color

Mixing a small amount of any single color with any other color

- Type and age of substrate. The substrate by itself should provide required durability
- Mounting angle or directional orientation
- Geographical location
- Air pollution
- Exposure to excessive abrasion (e.g. brush car washes)
- Non-clear coated prints will exhibit more color change and loss of gloss

We warrant our products to be free from defects in material and workmanship; but because their use is beyond our control, we accept no responsibility of liability for damages, whether direct, indirect, or consequential, resulting from failure in performance. User bears sole responsibility in selecting the appropriate product for their end-use requirements. User is also responsible for testing to determine the selected product will perform during the printed item's entire life-cycle. In cases where our products are found to be defective in material and workmanship, our liability is limited to the purchase price of the products found to be defective.

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