



## **Technical Data Sheet**

# Lustercure® LC 30-700 Dry Erase

Lustercure LC 30-700 Dry Erase Coating is a medium viscosity UV curable high gloss coating designed to be applied via the screenprinting process. When cured properly this coating will provide a surface that will accept dry erase markers without beading and will not stain when the surface is wiped clean.

#### **Substrates**

- Paper
- Paperboard
- Polystyrene
- Plastics

Substrate recommendations are based on commonly available materials intended for the coating's specific market when the coating is 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, 350-390 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 coating deposit. See <a href="https://www.kolorcure.com">www.kolorcure.com</a> 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.

## <u>Additives</u>

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

To lower the viscosity which will enhance the transfer of the coating through the screen, use **Thinner #1 (Diluent)**.

To increase curing speeds add Activator #3 (Sensitizer).

To eliminate bubbles resulting from the screening process, add **Anti-Bubble #2**.

#### **Printing**

Mix the coating thoroughly prior to printing. Improper mixing can lead to inconsistent color and coating performance.

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

Keep coating away from direct sun light and indirect white light. Be cautious using the coating in areas having overhead lights, skylights, or windows as stray UV light can cause the coating to cure in the screen. Light filters are recommended. Ambient lighting may affect uncovered containers of coating, forming a skin on the coating's surface. Keep containers covered.

#### Curino

LC-30-700 Dry Erase Coating cures in air upon exposure to a single 600+ mW/cm<sup>2</sup> medium pressure mercury vapor lamp. For an optimal cure a 100–180 mJ/cm<sup>2</sup> window is required.

These guidelines are intended only as a starting point for establishing cure parameters, which must be determined under actual production conditions. If a loss of gloss, adhesion, or block resistance occurs due to insufficient cure, the use of mixing base can increase light penetration and improve cure. In addition, faster curing speeds can be achieved by adding 3-5% liquid sensitizer.

#### Storage

All KOLORCURE photopolymer inks and coatings should be stored in a cool dry area: 80°F (27°C) or below. Keep these inks and coatings away from direct sun light and indirect white light. Do not use these inks and coatings in areas having fluorescent lights overhead. Keep these inks and coatings away from internal heat sources. When stored under recommended conditions, the shelf life of most coatings is expected to be 12 months from date of manufacture.



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#### Suitability

Lustercure LC 30-700 Dry Erase is suitable for the following processes:

### Stacking

Immediate stacking coating to substrate. Degree of cure, weight of the substrate when stacked, and conditions of the printing environment (e.g. heat and humidity) will affect block resistance. Surface hardness of cured coating film has been optimized for handling, however the printer must assume responsibility for pre-testing and qualifying the parameters for stacking prints prior to each production run.

## 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 coating 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**

Even when using recommended UV energy output levels, it is imperative to check the degree of cure on a completely cooled print.

## 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:

- Coating 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.

® LC 30-700 Dry Erase

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