



## LUSTERCURE® LC 20-800 CHEMICAL RESIST

### PRODUCT DESCRIPTION

Lustercure LC 20-800 Chemical Resist is a medium viscosity UV curable gloss coating designed to be applied via the screen printing process. This coating should be applied where the utmost chemical protection is required. Resistance to most industrial (ie. Alcohol, Ketone, Hydrocarbon) and household chemicals is exceptional.

### RECOMMENDED SUBSTRATES

LC 20-800 Chemical Resist adheres well to Polycarbonate, Polyester, PVC, and Polystyrene, substrates.

### PHYSICAL PROPERTIES

Appearance:	Slightly Hazy Clear Liquid
Odor:	Mild Acrylic
Solids:	100%
Weight/U.S. Gallon:	8.8 – 9.0 lbs approx.
Viscosity:	3950-4450 cps at 25°C
Flash Point:	Greater than 200°F (93°C)
Shelf Life:	6 months at 77°F

### 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, Acceptable 305-420 mesh per inch. (Open area should not exceed 30%).

**Stencil** - Lacquer proof, most direct or direct/indirect work well.

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

**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

To lower the viscosity which will enhance the transfer of the ink 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.

To eliminate "fish eyes" in the wet ink film add Flow Promoter.

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## **CURING AND CURING EQUIPMENT**

Lustercure LC 20-800 cures in air upon brief exposure to a focused high intensity ultraviolet light source. A standard 200-300 watt per inch medium pressure mercury vapor lamp should be used. For an optimal cure a 200-250 millijoule window is required. Chemical resistance improves as energy levels increase. In addition faster curing speeds can also be achieved by adding 3-5% liquid sensitizer.

## **FILM THICKNESS**

Recommended 0.4 to 0.6 mil (10-15 microns).

## **COVERAGE**

Using 390 monofilament polyester mesh, Lustercure LC 20-800 will yield an average of 3200 square feet per gallon.

## **STORAGE AND HANDLING**

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.

## **SPECIAL NOTES**

All UV inks and coatings are sensitive to contamination. Use only new screens or those previously used for UV printing. Do not add any conventional ink or solvents to the inks. They are most likely not compatible and will destroy all properties.

## **WARNING**

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 liquid with the eyes may cause injury – effects may be delayed; flush eyes with large amounts of water for 15 minutes and call a physician. Like most polymers, the properly –cured resins are considered largely inert.

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