



STERLING SILVER

PRODUCT DESCRIPTION

KOLORCURE'S Sterling Silver is a one-part UV curable ink that showcases a high reflective chrome silver finish. This product was designed to be a superior alternative to the industry standard PMS-877 silver. It is universal within our system, allowing it to be printed on practically anything.

SUGGESTED USES

Sterling Silver adheres to difficult substrates such as Fluted Polyethylene and Polypropylene, Polystyrene, Vinyls, Acrylic, along with all other plastics and paper.

PHYSICAL PROPERTIES

| | |
|---------------------|---------------------------|
| Solids: | 100% |
| Weight/U.S. Gallon: | 8.5 lbs |
| Viscosity: | 3000-6000 cps at 25°C |
| Flash Point: | Greater than 200°F (93°C) |
| Shelf Life: | 1 Month 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, 355-380 mesh per inch recommended.

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.

FILM THICKNESS

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

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 #7 (Sensitizer).

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CURING AND CURING EQUIPMENT`

Sterling Silver can be applied via hand printing, semi-automatic, fully automatic or rotary screen applications. It will cure upon brief exposure to a focused high intensity ultraviolet light source. A standard 300 watt per inch medium pressure mercury vapor lamp should be used. Speed of cure is approximately 50-60 fpm when passed under a single 300 watt bulb properly focused. Multiple lamps or the addition of Activator/Sensitizer will increase cure rates.

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.

When printing the Sterling Silver, be sure to have it be printed first down. If you desire to print it on top of other inks and colors, be sure to use KOLORCURE's specially formulated inks which will allow such process.

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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