

## Technical Data Sheet

# Thinners 1, 2, 3 & 9 (Diluents)

Thinners 1 & 2 are low viscosity reactive diluents for use in viscosity reduction of KOLORCURE UV curable screen inks and coatings. Thinner 1 can be used when flexibility needs to be maintained and Thinner 2 will help with adhesion and film toughness.

Thinner 3 is a low viscosity reactive diluent for use in the viscosity reduction and cure speed enhancement of KOLORCURE UV curable screen inks and coatings.

Thinner 9 is a low viscosity diluent for use in KOLORCURE Thermoform inks.

### Directions for Use

#### **High Ink Viscosities Due to Very Cold Work Areas**

Kolorcure screen inks are supplied for use at normal working temperatures (700-900°F, 190-300°C). All Kolorcure UV screen inks viscosities will, however, vary with temperature, (viscosity increases as temperature decreases). While these inks will return to workable viscosities when temperature is again increased, it may be desirable to add Thinner 1 or 2 during the cold weather portion of the year if the screening area is not well heated.

#### **High Speed Screening Conditions**

If poor screen breakaway is experienced under high speed printing conditions (e.g. cylinder press, very fast print stroke speeds, etc.), the ink viscosity can be reduced. Poor breakaway can also be due to improper screen tension or off contact distance. However, especially under conditions of low temperatures, very large printing areas or high print speeds, the addition of Thinners 1 or 2 may be required.

#### **Clear Coatings**

For viscosity reductions due to individual application conditions, Kolorcure Thinner 1 or 2 may be used.

### Special Notes

KOLORCURE additives become an integral part of the cured ink or coating film. The use of excessive amounts of these products may affect cure speed, flexibility, or adhesion. Once the KOLORCURE screen ink or coating has had an additive added, the user should verify that the product still performs to their satisfaction.

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.

### 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.

### 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, shelf life is expected to be 6 months from date of manufacture.

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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