



THINNER #1, #2, #3 & #9 (DILUENT)

PRODUCT DESCRIPTION

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.

PHYSICAL PROPERTIES- THINNER #1, #2, #3

Appearance	Clear to yellowish, low viscosity liquid
Weight/U.S. Gallon	8.5 Lbs
Flashpoint	Greater than 200° F (93° C) (Pensky-Martens Closed Cup)

WHEN TO USE THINNERS 1 OR 2

High Ink Viscosities Due to Very Cold Work Areas

KOLORCURE screen inks are supplied for use at normal working temperatures (70°-90° F, 19°-30° 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 (ie: 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.

DIRECTIONS FOR USE

Stir up to 10 % KOLORCURE Thinner 1 or 2 as needed to reduce the ink or coating viscosity. If in doubt as to the amount to add or its suitability for a particular KOLORCURE screen ink or coating, contact your KOLORCURE representative.

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WHEN TO USE THINNER 3

Cure Speed Enhancement

KOLORCURE inks and coatings are formulated “ready to use.” However, if their cure speed must be increased above the recommended “cure speed/lamp” recommendations given in our data sheets, KOLORCURE Thinner 3 may be employed.

Additions of this product will often also improve hardness and mar resistance of KOLORCURE UV curable inks and coatings.

Viscosity Reduction

KOLORCURE Thinner 3 is a reactive diluent and will reduce the viscosity of formulations. However, it can also cause brittleness when used in large amounts, (greater than 20%).

For viscosity reduction only, KOLORCURE Thinner 2 is recommended. It reduces the viscosity more effectively than KOLORCURE Thinner 3 and has less tendency to reduce the flexibility of the cured film.

DIRECTIONS FOR USE

Stir in 5 to 20 % KOLORCURE Thinner 3 as needed to enhance the cure speed. If in doubt as to the amount to add or its suitability for a particular KOLORCURE screen ink or coating, contact your KOLORCURE representative.

SPECIAL NOTES

KOLORCURE Thinners are reactive diluents and 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 been diluted, the user should verify that the product still performs to their satisfaction.

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.

“Based on our experience, we believe the above information is accurate, but we offer no guarantee as to the use or application of our products or of this information. 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. 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. THIS WARRANTY IS TO THE EXCLUSION OF ALL OTHER WARRANTIES OR GUARANTEES, EXPRESSED OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, DESCRIPTION, PRODUCTIVENESS OR ANY OTHER MATTER. None of the above information may be construed as recommendation that our products be used in violation of any rights. We accept our orders at our shipping points only on the basis of the above understanding which our employees have no authority to vary.”