



UNION INKS

Product Information

UVI-VINYL SCREEN INKS

70-00 SERIES

TIL NO: 802

PROPERTIES

Flexible, high visual impact glossy ink specifically formulated for screen printing onto variety of substrates, including styrene, vinyl, polycarbonates, top coated polyester, coated paper and cardstocks, acrylic and acetates. It offers: -

- Fast cure rate giving high production yield
- Good adhesion to a wide range of plastics
- Excellent flexibility
- Excellent gloss

APPLICATIONS

Uvi-Vinyl screen ink is a single pack ultraviolet curable ink designed for screen-printing onto a wide variety of plastics including PVC bottles, vinyl, polycarbonates and top coated polyesters. Properly cured, these inks will excellent adhesion and flexibility. Pre-test for adhesion prior to use in production

SCREENS

Stencils must be solvent resistant. For fine details use 180 threads/cm fabrics, while 140 threads/cm fabrics are recommended for large areas or where higher opacity is demanded. For screen wash-up, use Universal Wash 99-SW113.

THINNING

Uvi-Vinyl is a pre-initiated, one part system, and ready to print from the container. If necessary, UV Reducer 70-T102 or 70-UM591 may be used. Thinning ratio varies depending on printing conditions but do not exceed 5% by weight.

PRINTING

Prior to use ink must be thoroughly stirred and if necessary, thinned according to printing parameters. Printing should be off contact with well-sharpened polyurethane squeegee of average shore hardness of 70-75 shore. Soon after use clean the screen and other equipment with proper solvents.

CURING

Uvi-Vinyl ink will cure on all commercially available UV dryers. Cure speeds will depend on exposure time or line speed, wattage output, ink deposit and UV intensity. As a guide, printing using 140 threads/cm, UV energy required to cure the ink film is about 50-150 millijoules / cm⁻¹ on a UV-V or 100 – 300 on a UV-A spectral response.

PRODUCT RANGE

The standard basic shades are in the SSI screen ink colour guide.

- trichromatic colours for process colour printing. (70-Y200 Yellow, 70-M200 Magenta, 70- B200 Blue and 70-K200 Black or 70-K200/1 Dense Black).
- 70-185 Extender medium to reduce unit cost of the ink.
- 70-187 Process medium to lower shade intensity without affecting ink original physical properties.
- 70-195 Transparent medium to modify the properties of pigmented ink or as an overprint varnish.
- 70-D2000 High Gloss Overprint Varnish.
- 70-D3000 Matt Overprint Varnish

The basic ink shades are:

CODE	COLOURS
70-P113	PRIMROSE YELLOW
70-Y114	GOLDEN YELLOW
70-S123	ORANGE
70-R100	RED
70-M100	MAGENTA
70-V100	VIOLET
70-B100	BLUE
70-G100	GREEN
70-K100	BLACK
70-W100	WHITE

PRECAUTIONS FOR USE AND STORAGE

Direct or prolonged ink exposure to light sources with UV contents should be avoided. Avoid contact with skins and eyes. If the ink comes in contact with the skin, promptly wash off with water and soap. If eye contact occurs, immediately wash off with water for 15 minutes and seek medical advice. Wash area has to be effectively ventilated. Store product in a cool place and shelf life is about 6 months at 25 degrees C.

WARNING

This information is given in good faith, but without any guarantee as the printing conditions of our inks are beyond our control. In the event of complaints, the ink supplier may replace free of charge the unused ink, declining any other responsibilities.