



# UNION INKS

## Product Information

### *UNI- PU SCREEN INKS*

### *161-00 SERIES*

TIL NO: 161

#### PROPERTIES

161-00 Series Uni-PU Screen Inks is a two component offering high gloss, excellent adhesion and wear and solvent resistance.

- Good opacity
- Can be air - dried
- Excellent adhesion
- Excellent flexibility
- Excellent rub resistance

#### APPLICATIONS

Uni-PU inks are formulated for direct printing onto TOU leather and coated articles, PU and PVC leather, tote-bag material and other synthetic products. (**Always pretest**)

#### CATALYST

It is necessary to add proper catalyst **161-C191** (1 part to 9 parts of Uni-PU ink). Catalysed ink must be used within 8 - 10 hours depending on environment temperature, humidity and thinning ratio.

#### SCREENS

Stencils must be solvent resistant. For fine details use 120 threads/cm fabrics, while 21 threads/cm fabrics are recommended for large areas or where higher opacity is demanded.

For screen wash-up, use Screenwash 99-SW113.

#### THINNING

- Fast Reducer: 161-T102
- Normal Reducer: 161-T104

Thinning ratio varies depending on printing and drying conditions from 10 to 20% maximum.

#### PRINTING

Prior to use ink must be thoroughly stirred and 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 equipments with proper solvents.

#### DRYING

The ink dries by evaporation of solvents and cures at ambient temperature. The tack free time at room temperature is approximately 30 - 60 minutes. In jet dryers at temperature of 70 - 80<sup>o</sup> C, drying time is considerably reduced to about 2 - 3 minutes. Complete curing at ambient temperatures is about 24 hours.

#### PRODUCT RANGE

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

- Trichromatic colours for process colour printing.

- 161-185 Extender medium to lower shade intensity without affecting ink original physical properties.
- 161-D100 Base medium for the preparation of metallic ink.
- 161-C191 Uni-PU Catalyst to be added at level of 10% to the ink. The catalysed ink has a pot life of 8 - 12 hours.

The basic ink shades are:-

CODE	COLOURS
161-P100 / NT	Primrose Yellow
161-P114 / NT	N. T. Yellow
161-Y100 / NT	Golden Yellow
161-S123 / NT	N. T. Orange
161-S100 / NT	Scarlet
161-R100	Red
161-M100	Magenta
161-PM100	Pro Magenta
161-V100	Violet
161-B100	Blue
161-G100	Green
161-K100	Black
161-W100	White

#### PRECAUTIONS FOR USE AND STORAGE

This material is not hazardous when used with a reasonable standard of hygiene and safe working practice. However, as with all chemicals, skin contact should be avoided and any contamination must be washed with plenty of water. In case of eye contamination, irrigate with plenty of water and seek medical advice. Store product in a cool place and shelf life is about 12 months at 25 ° 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.