



UNION INKS

Product Information

UNICURE THERMOSET SCREEN INKS 49-00 SERIES

TIL NO: 509

PROPERTIES

Unicure Thermoset is a single packed thermoset screen ink featuring outstanding flexibility and hardness. This ink offers:-

- Outstanding adhesion to most types of metal surfaces.
- Good bending properties without cracking.
- Good stability on the stencil during printing and breaks.
- Good resistance to solvents, acids and alkalis.
- supply both gloss and matt finishes.

APPLICATIONS

This ink series is recommended for printing aluminium and steel plates, phosphated steel which are designed for cutting and bending. This ink series provides excellent resistance to all chemical agents.

SCREENS

Stencils must be solvent resistant. For fine detail prints use 120 threads/cm fabrics, while 77 threads/cm fabrics are recommended for large areas where higher opacity is demanded. For screen wash up, use Universal screen wash 99-SW 113.

CATALYSIS

This is a single pack and no addition of catalyst is necessary. However, if product or chemical resistance can be insufficient or lost due to storage, it is necessary to add about 2 % of proper catalyst 58-C 191.

THINNING

- Fast Reducer: 49-T102
- Retarder: 49-T104

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 AND CURING

To achieve curing, time required in hot air dryers at 150 degrees C is about 10 minutes. In Infrared dryers, time is reduced to about 1 - 3 minutes at 180 degrees C.

Covering shades do not show any particular colour variation even at 180 degrees C for 15 minutes.

PRODUCT RANGE

The line includes a wide range of colours and products:-

- Standard basic shades for colour matching system as to SSI colour chart.
- 49 - 195 transparent medium to modify the properties of pigmented ink or to reduce colour strength.
- 49 - D100 base medium for the preparation of metallic inks.

The basic ink shades are:-

CODE	COLOURS
49-P100	Primrose Yellow
49-Y100	Golden Yellow
49-S100	Scarlet
49-R100	Red
49-M100	Magenta
49-V100	Violet
49-B100	Blue
49-G100	Green
49-K100	Black
49-W100	White

SURFACE PREPARATION

Oxidation or other contaminants like oil or fat can lower ink adhesion. It is therefore necessary to clean metal surface by wet mechanical brushing or degreasing and to dry thoroughly to get good ink adhesion.

Always pre-tests ink adhesion before commencing production.

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 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.