



MUV-1000 Series UV Curable Marking Ink

DESCRIPTION

MUV-1000 Series UV curable marking ink is a one component UV curable marking ink manufactured by Sanwa Chemical that has the following benefits.

1. Excellent screen printability for fine characters.
2. Completely cured by UV light.
3. Excellent adhesion.
4. Good solvent and heat resistance, and electrical properties.
5. Easy to work with due to no-solvent content.
6. Excellent for fully automated printing lines.
7. Can be used along with the hot air level process.

OPERATING PARAMETERS

Make-Up	Mix and use as received
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Nomenclature (See ordering sheet for more details)

A.)	Colors	Symbol
	White	W
	Black	C
	Yellow	Y

Note: Not every color and texture combination is available. Please contact FCT for details.

PHYSICAL PROPERTIES

(Note: these are typical properties and is not a specification)

Colors	White, Yellow or Black
Volatile %	Nearly 0% (no solvents)
Viscosity (RT = 25C or 72F)	200-250 ps
Hardness (pencil)-JIS-D-0202	>3H



Adhesion-JIS-D-0202	100/100. Passed crosscut hatch test.
Heat resistance (solder bath)	Passed three times floating at 260C for 10 seconds
Insulation resistance IPC-SM-840B at 100V	1 x 10 ¹³ Ohms as received
Solvent resistance	Passed for 3 hour immersion at room temperature, in trichlene
Shelf life	12 months after delivered, when stored at 20C (65F) in the dark

CONTROL PROCEDURES

1. Preparation of the UV curable marking ink

- A. Mix the marking ink before use.
- B. Viscosity can be adjusted by Sanwa Chemical as customers request.

2. Application of the marking ink

- A. Recommended method is screen-printing.

3. Final cure

The UV cure should be as follows:

3 high pressure mercury lamps @ 100W/cm
4 – 6 m/min conveyor speed.

Total cure energy: 800-1000 mJ/cm² White ink
 1000-1200 mJ/cm² Black ink
 1200-1500 mJ/cm² Yellow ink

ANALYSIS

Not applicable.

SAFETY AND STORAGE

Do not store in direct sunlight, high temperature or below freezing. **Store in original uncontaminated container.**

WASTE TREATMENT

Not applicable.

MISCELLANEOUS

Consult MSDS sheet for additional information.