

T01-HF Mseries Pad Printing

RUCO Druckfarben – Taiwan Distributor

Ink – 2-component ink

T01-HF
M series
(low halogen)



(low halogen)
Eco-friendly design
No added fluorine,
bromine, iodine



Application Field

Glass, metal anode, ceramic, acrylic (acrylic), bright lacquered surface, thermosetting plastic, polyamide (PA), polycarbonate (PC), pre-treated polyethylene (PE), and polypropylene (PP), polyurethane rubber (PU).
Since the above materials may be different in chemical structure or production method, it is necessary to test whether the ink is suitable before printing. Antistatic agents, release agents, and sliding additives may have a negative effect on adhesion, so they must be detected and removed before printing.

Shelf Life

Stored in the original packaging at 21 degrees Celsius, unopened can be stored for 2 to 3 years, used as soon as possible within 12 months after opening.

Ink Characteristics:

It is a high-gloss, physically dry and chemically active pad printing ink with good mechanical and chemical resistance and flexibility.
T01-HF series is halogen-free (fluorine, bromine, iodine) ink and its color is light and weather resistant, and has high shielding properties. It is recommended to do product testing before production. The materials used comply with the regulations and restrictions of EEC Regulation EN71 (Toy Safety), Article 3 (Migration of Specific Elements) passed in December 1994.

Color Range:

This series contains 12 reference colors, which can be mixed with each other to produce a wide range of colors.
The commonly used standard on the market is Pantone.

Fine Cause Color Matching Service:

Please provide Pantone color number or printed materials.

	White	T01HF1088		Yellow	T01HF2408		Violet	T01HF50103
	White	T01HF1047		Yellow	T01HF2409		Blue	T01HF50104
	Black	T01HF9053		Orange	T01HF30137			
	Black	T01HF9026		Red	T01HF30138			
	Clear base	T01HF0041		Pink	T01HF30139			

※Above colors only for reference

Additives:

1. Thinner – Added before production, the ink can be adjusted to the appropriate printing viscosity.
2. Retarder – The retarder's volatilization rate is slow, and the retarder is added to control the ink drying time. Note that adding too much will affect the adhesion of the ink.
3. Hardener – The hardener is added to the ink to increase the adhesion of the ink.
100VR-1433 is the standard hardener, the addition ratio is about 10-20%, 100VR-1294 is the glass hardener, the addition ratio is about 10-20%, the general baking temperature is 80~140°C 30 mins/ glass 180°C 30 minutes.

Operation Suggestions:

1. T01-HF B series ink can be used in all screen printing equipment on the market. The printing speed can reach 800-1600Pcs per hour.
2. PP and PE materials need to be pre-treated first by flame treatment or corona discharge, mainly to ensure the adhesion of ink.
It is recommended to pre-treat PE printing with a surface tension of at least 42 mN/m (Dynes/cm) It is recommended to pre-treat PP printing with a surface tension of at least 52 mN/m (Dynes/cm)

Curing Conditions:

At room temperature (21 °C), T01-HF B series ink is controlled to dry within 5 minutes. The drying of the ink added with the hardener reached complete drying at room temperature in about 36 hours. To speed up the drying of the ink, it is recommended to use a hot air fan or infrared light.

End Products



▲ Glass cup ▲ Ceramic mug ▲ Metal ▲ Glass cosmetic jar

Precautions:

For further safety, preservation, and environmental issues, please refer to the Material Safety Data Sheet (MSDS)
Website: <https://www.finecause.com/knowledges/knowledge3>