

– 1-component ink

920UV
G series



(Low Halogen)
Eco-friendly design

Application Field

Polyethylene (PE) and polypropylene (PP), PVC, other plastic types of pretreatment substrates, paper and cartons. 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 series of high-gloss UV inks, which have strong reactivity. Even under the high-speed printing of the machine, they can maintain good curing and adhesion. 920UV series, without adding toxic substances and solvents, this series of inks show good solvent resistance and water resistance after 12 hours, suitable for extreme climatic conditions (temperature > 28 degrees C). It is recommended to do product testing before

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.

	White	920UV-1119		Orange	920UV-30226		Green	920UV-6883
	Black	920UV-9197		Red	920UV-30227		Blue	920UV-9197
	Clear base	920UV-0007		Red	920UV-30228			
	Yellow	920UV-2606		Pink	920UV-30229			
	Yellow	920UV-2607		Violet	920UV-50315			

Fine Cause Color Matching Service

Please provide Pantone color number or printed materials.

※Above colors only for reference

Additives

1 Thinner - Added before production, the ink can be adjusted to the appropriate printing viscosity via the addition of thinner.

Reduce ink consistency-UV special thinner 920UV-0014 (maximum addition amount 2-5%)

Increase curing-UV special active diluent 920UV-0010 (maximum addition amount 2-5%)

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.

100VR1259 hardener, add up to 2% (printing needs at room temperature 21 °C, within 12 hours).

Operation Suggestions:

1 920UV series ink can be used in all screen printing machines on the market.

2 Pre-treatment-PP and PE materials must be pre-treated. The method is 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 42mN/m (Dynes/cm). It is recommended to pre-treat PP printing with a surface tension of at least 52mN/m (Dynes/cm).

Curing Conditions:

1. All colors of 920UV series can be cured by using medium pressure mercury vapor lamp (at least 160W/cm).

2. The best energy output is 250-300 mJ/cm². 12 hours after UV curing is the curing stage, after which the ink film will be completely cured.

3. However, it should be noted that low radiation intensity, excessive machine speed or excessive film thickness may affect curing and adhesion.

4. Pay attention to the uncured printed matter, which is hazardous waste, which should be cured before processing.

End Products



▲ PP bucket



▲ PP cup



▲ PE bottle



▲ PP bottle

Precautions:

UV ink may cause irritation and may increase skin sensitivity and may cause allergies, so it is strongly recommended to use disposable gloves and goggles.

For further safety, preservation, and environmental issues, please refer to the Material Safety Data Sheet (MSDS).

Website: <https://www.finecause.com/knowledges/knowledge3>