



# UV1-01 Series UV Curable Offset Ink

## 【Product description】

This UV curable offset ink is mainly composed of UV-curable acrylic resin, photoinitiator, active diluent, pigments, filler and additive. It is an environmentally friendly ink product that does not contain solvents and volatile raw materials. It has stable printability, fast curing speed, bright ink color, high saturation, good adhesion, and excellent aging resistance, and so on.

## 【Characteristics】

- ❖ Good printability, suitable for general society fast printing UV offset printing.
- ❖ Fast UV curing, good adhesion, abrasion resistance, scratch resistant and high toughness dry film.
- ❖ Safe and environmentally friendly, free of petroleum solvent, non-volatile products. Using low-irritating monomer raw materials, effectively reduce the irritation of the ink to the skin.

## 【Technical parameter】

Product		UV1301 YELLOW	UV1401 MAGENTA	UV1501 CYAN	UV1101 BLACK	UV1201 WHITE	REMARKS
Index	Tackiness	10-12	11-13	11-13	12-14	11-13	Viscometer, 400rpm, 32±1℃
	Viscosity	30-80Pa.s					Falling rod viscometer(25℃)
	Curing rate	120W/CM					1-5 units of HG LAMP (15-100m/min)
Adhesion	Gold/ silver cardboard	5	5	5	5	5	0-5, poor and excellent The substrate needs to be surface treated, and the surface tension reaches 38 dyne/cm and above.
	PET	5	5	5	5	5	
	PVC	5	4-5	5	4-5	5	

The above data comes from the laboratory and is for reference only.



### **【User's guidance】**

- ❖ Viscosity adjustment: Since the UV curing ink is a 100% solid content product, it has been ideally balanced to adjust various printing properties. If you need to adjust the viscosity slightly, you can add 1-3% monomer resin dilution solution, and excessive amount of monomer resin will change ink performances.
- ❖ Post-processing: If you need post-printing process after printing, such as sizing, laminating, bronzing, etc, please conduct a single or small batch test firstly (be attention to select the appropriate glue, film and bronzing materials during the test), and test according to the requirements of the post-processing, then print after meeting the requirements.
- ❖ Adhesion of ink: The ink exhibits different adhesion on the surface of the printed material due to various factors, such as the material, surface structure, surface condition, and surface tension of the printed material. Thus, users are particularly reminded to confirm the adhesion of the ink on the printing material by the required test method before the formal printing, and then select the corresponding product according to the need.
- ❖ Safety: UV ink has a certain irritation to the skin, please avoid prolonged exposure of the skin to UV ink during operation, which may cause skin allergies.
- ❖ Storage of ink: The ink should be stored in a cool and dark environment, and the storage temperature is below 25°C.

### **【Instructions】**

- ❖ Due to different construction substrates and processes, please test the adaptability of the product according to your specific requirements before batch use.

### **【Packaging and shelf life】**

- ❖ Package and packing specification: galvanized iron can, net weight 1kg
- ❖ The shelf life of this product is 1 year.

### **【Disclaimer】**

This specification is in accordance with the actual production and test results, whether the product could meet your process requirements depends on application conditions and printed material. We recommend the users to assess if the product can meet all their requirements before production. Since we cannot predict or control your printing condition, the product performance cannot be guaranteed all sales are subjected to the standard terms and conditions of the sales control division.