UV-LED 1-01 Series LED 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 additives. Without solvents and volatile raw materials. It has stable printability, fast curing speed, vivid ink color, high saturation, good adhesion, and excellent aging resistance.

【Characteristics】

- ❖ Good printability, suitable for UV LED business printing.
- ❖ Fast UV curing, good adhesion, abrasion resistance, scratch resistant and high toughness.
- ❖ Good water and ink balance, good tone reproduction
- ❖ Safe and environmentally friendly, free of petroleum solvent, non-volatile products. Using low-irritating monomer raw materials, effectively reduce the irritation to the skin.

【Technical parameter】

Index \ Product		UV-LED 1301 YELLOW	UV-LED 1401 MAGENTA	UV-LED D1501 CYAN	UV-LED 1101 BLACK	UV-LED 1103 Ultra BLACK	UV-LED 1201 WHITE	UV-LED 1203 Ultra WHITE	REMARKS
Tackiness		10-12	11-13	11-13	12-14	12-14	8-11	8-11	Viscometer, 400rpm, 32℃
Viscosity		25-80Pa.s							Falling rod viscometer(25℃)
Curing		Suitable for curing 365nm and 385nm LED light sources							
Adhesion	Gold/ silver cardboard	5	5	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	5	5	
	PVC	5	4-5	5	4-5	4-5	5	5	

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

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【User's guidance】

- Viscosity adjustment: The UV curing ink ideally balanced to adjust various printing properties. Adding 1-3% monomer resin dilution solution can adjust the viscosity slightly, and excessive amount of monomer resin will change ink performances.
- Post-processing: If gluing, filming and bronzing process is required after printing, please conduct a small-scale test first(please select the appropriate glue, film and bronzing materials during the test), and test according to the requirements of the post-processing, then print large scale after all the requirements are met.
- Adhesion: 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 is irritating, avoid prolonged exposure to skin as it may cause skin allergies.
- Storage: Store in a cool and dark environment, and the storage temperature is below 25℃.

【Precautions】

- Due to the difference in printing process and substrate, it is important to test whether the ink meet your requirement before large scale production

【Packaging and shelf life】

- Package and packing specification: metal can, net weight 1kg
- The shelf life 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.

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