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 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 general UV offset printing.
- ❖ Fast UV curing, good adhesion, abrasion resistance, scratch resistant and high toughness.
- ❖ 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】

Product / Index		UV1301 YELLOW	UV1401 MAGENTA	UV1501 CYAN	UV1101 BLACK	UV1103 Ultra BLACK	UV1201 WHITE	REMARKS
Tackiness		10-12	11-13	11-13	12-14	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	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	
	PVC	5	4-5	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 is 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 affect ink performances.
- Post-processing: If gluing, filming and bronzing process is required after printing, please conduct a single or small scale test first(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: 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; please 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, please test the adaptability of the product according to your specific requirements before large scale production.

【Packaging and shelf life】

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

【Disclaimer】

The data shown in this document is based on actual production and test result generated within our company. Above data is only for reference and does not bear any legal guarantee responsibilities. Whether actual ink performance can meet user's requirement depends on application conditions and substrate etc. We suggest that users should access whether current production conditions meet the application requirement of each product before printing. Since we cannot control the actual application and storage conditions, we cannot guarantee the final product performance. All product sales subject to our standard sales terms and conditions.

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