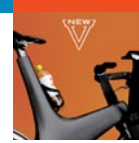




Technical Information

5.08.01 | 06.2009 | UV-curing inks and varnishes



NewV flex[®] - UF 6000

The UF 6000 series of UV inks has been developed for printing labels and secondary packaging on UV flexo presses.

NewV flex - UF 6000		Fastness properties per DIN 16 524/25			
		Light WS	Alcohol	Solvent mixture	Alkali
Yellow	61 UF 6000	5	+	+	+
Yellow opaque	61 UF 6010	5	+	+	+
Magenta	62 UF 6000	5	+	+	-
Cyan	63 UF 6000	8	+	+	+
Black	69 UF 6000	8	+	+	+
lightfast					
Yellow	61 UF 6001	7	+	+	+
Magenta	62 UF 6001	7	+	+	+

Special properties

- Fast-curing ink series (up to 150 m/min) with good fastness properties
- Good flow properties
- Low-odour formulation
- Good adhesion
- ITX-free formula
- VOC-free
- Suitable for rubber and photopolymer plates.

Range of applications

The UF 6000 series is suitable for:

- Coated and uncoated papers and card stocks
Highly absorbent stocks can greatly reduce the curing speed.
- Top-coated grades of board*
- Thermal papers
A number of thermal papers react to UV vehicles. For this reason, always carry out a test prior to beginning the print run.
- Pretreated (corona or gas flame) or preprimed, non-absorbent substrates such as PE, PVC, PS, PP **

We recommend application of a UV varnish in order to provide effective protection of the print image (see TI 5.10.02 entitled "NewV lac for UV curing").

* Non-absorbent substrates must have a surface tension of at least 38 mN/m in order to ensure optimum ink adhesion. In view of the large number of substrate suppliers and different substrates and substrate grades available, we recommend you carry out an adhesion test prior to beginning the print run.



Recommended application rates

	Process inks	PANTONE®	Areas
Lines /cm	300-500	160-180	120-180
Lines /inch	760-1270	400-460	300-460
Pick-up volume (cm ³ /m ²)	2-4	5-6	5-10
Angle	60	60	60
Application rate g/m ²	0.6-1.2	1.6-1.8	1.6-3.0

Printing auxiliaries

NewV sup ® Reducer, Coloured	60 U 1001	max. 10%
NewV sup ® Reducer, White	60 U 1002	max. 10%
NewV sup ® Activator, Coloured	60 U 1003	max. 5%
NewV sup ® Activator, White	60 U 1004	max. 5%
NewV sup ® Slip Additive	60 U 1009	max. 3%
NewV sup ® Adhesion Promoter	60 U 1012	max. 10%
NewV sup ® Defoamer	60 U 1013	max. 0.5%
NewV sup ® Washup Solution	60 U 1000	

Application instructions

Stir the ink well before use and do not mix with products from other series. Use only the recommended auxiliaries

Thermostransfer / hot foil stamping / overprintability

In view of the large number of substrate suppliers and different substrates, hot-stamping foils, toners, etc. available, we recommend you carry out a test prior to beginning the print run.

Food and confectionery packaging

More information on the subject of food and confectionery (semi-luxury foods and tobacco) packaging can be found in the information sheet entitled "Printing inks for food packaging" published by the German Printing Ink Manufacturers' Association and in TI 5.04.01 entitled "NewV UV inks and varnishes for food packaging".

Classification

Safety Data Sheet available on request.

Shelf life

When stored under the correct conditions (20 °C, protected against heat and light):

Inks: min. 12 months

Varnishes: min. 3 months

How supplied

5-kg cans

Contact addresses for advice and further information can be found under www.NewV-inks.com

This Technical Information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.