

UV-Flexo Plus

The UV-Flexo Plus printing inks are a universal ink series for flexo printing. The inks are used for self adhesion labels, shrink sleeves films, flexible packaging and folding boxes, for example.

Characteristics

- Good gloss
- Good adhesion
- Low yellowing

Substrates

PVC, PE, PP, OPP, PET, PS, aluminium film, coated and uncoated paper and board.

Due to the variety of materials prior tests of printability and properties are recommended as well as in-line corona pre-treatment for films. A surface tension of approx. 40 mN/m is suggested.

Processing instructions

Stir the inks well before use. Good curing depends on ink application, substrate, number and type of emitters used, their distance to the print and printing speed.

For an ink application of 1.0 - 1.5 g/m² we recommend a lamp output of 160 - 200 W/cm.

Process UV-Flexo Plus

	Article code	Light	Alcohol	Solvent	Alkali	Opacity
Process Yellow	04FUVFC01Y.5	5	+	+	+	TR
Process Magenta	04FUVFC01M.5	5	+	+	-	TR
Process Cyan	04FUVFC01C.5	8	+	+	+	TR
Process Black	04FUVFC01K.5	8	+	+	+	O
4-Kg-set:						
Process Yellow RST LF7	04FUVFC01YL7.5	7	+	+	+	TR
Process Magenta RST LF7	04FUVFC01ML7.5	7	+	+	+	TR

Resistances according to DIN ISO 2836

+ Properties given, - Properties not given

All types of anilox rollers can be used when using UV-Flexo printing inks. Depending on the printed image, screen resolutions of 60 to 400 lines/cm and even more can be printed. Due to a high pigmentation of the inks, the brilliance is preserved, even when printing with very high screen resolutions. Depending on the shade, the optimum ink application is between 0,8 and 2,0 g/m².

The following table shows the recommendation for cell volumes for different print subjects.

However, it must be chosen according to geometry, gloss and machine speed.

Print subject	Ink application g/m ²	Cell volume ml/m ²
Process printing	0,9 - 1,4	3,0 - 4,5
Screen - fine	0,9 - 1,0	2,8 - 3,5
Screen - coarse	1,2 - 1,5	3,0 - 6,0
Lines - fine	1,0 - 1,5	2,8 - 4,0
Lines - coarse	1,5 - 2,0	3,5 - 6,0
Areas	1,5 - 2,5	4,0 - 8,0

Technical data

Rotary viscosity (standards at 25°C, shear rate 160/s):

- Process Inks: 0.4 - 1 Pa*s
- Basic inks: 0.4 - 1 Pa*s

Further processing

After complete curing, the print can be further processed immediately.

The inks are UV-varnishable caused by their chosen fastnesses. They are also laminatable and suitable for stamping and thermal transfer printing.

Excluded applications

Applications with special requirements must be tested separately.

Pantone UV-Flexo Plus

	Product code	Light	Alcohol	Solvent	Alkali	Opacity
Pantone Yellow	04FUVPB110.5	5	+	+	+	TR
Pantone Yellow 012	04FUVPB112.5	5	+	+	+	TR
Pantone Orange 021	04FUVPB120.5	3	+	+	+	TR
Pantone Warm Red	04FUVPB131.5	3	+	+	-	O
Pantone Red 032	04FUVPB133.5	6	+	-	+	TR
Pantone Rubine Red	04FUVPB135.5	3	+	+	-	TR
Pantone Rhodamine Red	04FUVPB136.5	7	+	+	+	TR
Pantone Purple RST	04FUVPB140.5	7	+	+	+	TR
Pantone Violet RST	04FUVPB142.5	7	+	+	+	TR
Pantone Blue 072	04FUVPB152.5	7	+	+	+	TR
Pantone Reflex Blue RST	04FUVPB150.5	7	+	+	+	TR
Pantone Process Blue	04FUVPB155.5	8	+	+	+	TR
Pantone Green	04FUVPB160.5	8	+	+	+	TR
Pantone Black	04FUVPB190.5	8	+	+	+	O
Pantone Transparent White	04FUVPB100.5	n/a	n/a	n/a	n/a	TR
Basic Yellow RST LF7	04FUVPB111.5	7	+	+	+	TR
Basic Orange RST LF7	04FUVPB122.5	7	+	+	+	TR
Basic Warm Red RST LF7	04FUVPB132.5	7	+	+	+	TR
Basic Rubine Red RST LF7	04FUVPB137.5	7	+	+	+	TR
Basic Red 032 RST LF7	04FUVPB134.5	7	+	+	+	TR
Intensive Black	04FUVZW100.5		+	+	+	TR
PMS Opaque white - standard -	04FUVPB101.5	8	+	+	+	O
Opaque White Blueish - covering white -	04FUVW110.5	8	+	+	+	O
SLV Opaque White - standard for shrink sleeve -	04FUVPB204.5	8	+	+	+	O
SLV Opaque Spacer White						
- covering white for shrink sleeve -	04FUVPB205.5	8	+	+	+	O
Opaque White Matt - high opacity -	04FUVW115.5	8	+	+	+	O

Resistances according to DIN ISO 16524-26

+ Properties given, - Properties not given

Due to the necessary resistances to various filling materials, not all shades can be achieved in the accustomed quality.

Storage

Product should be stored cool, dry and in a dark place.

Packaging size

- 5 kg plastic bucket
- 200 kg barrel
- 1000 kg container

This technical instruction sheet is designed for your information and reference. It is based on and conforms to our current knowledge. However as actual application is affected by many factors over which we have no control, we are not liable for printing failures.