

FLEXO UVFL01 series

UV Curable Flexo Ink

Characteristic

This ink series is especially developed for printing on various different flexo machines.

Properties

- Excellent printability
- Fast curing
- Good gloss, high colour strength
- Viscosity properties ideal for flexo printing
- Low odour
- Optimal resistance properties will be obtained 24 hours after printing
- Formulated without benzophenone

Application Area

All flexo label and packaging printing machines equipped with a UV-curing system

UV Curing speed (with 2 lamps of 120 W/cm)

200 m/min

(the reactivity is also influenced by the substrate, the condition of the lamps, the condition and adjustment of the reflectors, the thickness of the ink layer, colour etc.)

Suitable Substrates (surface tension see 'Recommended treatment levels')

- All kinds of paper and board
- Inline Corona treated polyethylene
- Selected lacquered/primered aluminium foils and lids

Preliminary adhesion tests are recommended

Available Shades

- Process colours
- Mixing systems
- Opaque white
- Pantone colours
- Metallic colours
- Fluorescent colours

Process Colours - Flexo			ALCOHOL	NITRO	ALKALI
Yellow	UVFLO11000B	5	+	+	+
Magenta	UVFLO12000B	5	+	+	-
Cyan	UVFLO13000B	8	+	+	+
Black	UVFLO14000B	8	+	+	+

Mixing system		IWS	ALCOHOL	NITRO	ALKALI
Mixing white	UVFL010000B				
Opaque white	UVFL010001B				
Transparent white	UVFL010002B				
Yellow	UVFL010103B	5	+	+	+
Yellow fast 6	UVFL010100B	6	+	+	+
Yellow IWS 7	UVFL010104B	7	+	-	+
Warm Yellow	UVFL010105B	5	+	+	+
Orange fast	UVFL010200B	7	+	+	+
Orange	UVFL010201B	5	+	+	+
Warm red IWS 8	UVFL010300B	8	-	-	+
Warm red	UVFL010301B	3	+	+	-
Warm red fast	UVFL010302B	7	+	+	+
Red 032	UVFL010303B	5	+	-	+
Rubine red fast 6	UVFL010400B	6	+	+	+
Rubine red	UVFL010401B	5	+	-	+
Rubine red fast 7	UVFL010402B	7	+	+	+
Rhodamine red fast 7	UVFL010500B	7	+	+	+
Rhodamine red	UVFL010501B	3	-	-	-
Violet fast 7	UVFL010600B	7	+	+	+
Violet	UVFL010601B	3	-	-	-
Cyan	UVFL010700B	8	+	+	+
Green	UVFL010800B	8	+	+	+
Black	UVFL010900B	8	+	+	+

Remarks

- When laminated afterwards, take care to use the correct fast inks, and to do a preliminary adhesion test.
- Cleaning: it is not necessary to wash the press immediately after printing. The UVFL01-series will not cure in the press and is therefore ready to use for the next day's printing. However, the ink may start to cure in the press if sunlight or UV-light from the bulbs / UV-lamp is allowed to shine on the ink.
- Shelf life: the UVFL01-series has a 12-month shelf life guarantee. This guarantee covers 12 months from the date of manufacture (which is mentioned on the label). In order to give this guarantee, certain recommendations must be followed: the UVFL01-series should be kept on stock at temperatures between 15-20°C and they should not be exposed to direct sunlight or heat. If possible, store the ink in a dark room.
- Rollers: the following roller material is recommended: EPDM (Ethylene-Propylene-Diene-Monomers). EPDM rollers show excellent performance with UV-inks.
- Certain metallic UV-inks may cause swelling of EPDM rollers.
- Nitrile rubber: nitrile rubber rollers show minimal swelling with UV-inks and conventional inks. Solvents such as glycol and acetates do have a tendency to make this rubber swell. Nitrile rubber is recommended when using two component metallic inks.

Packaging

- 5 kg pails
- 10 kg pails
- 200 kg barrels
- 700 kg IBC's

Additives

•	UV Levelling agent		UV0007
•	UV Silicone additive		UV0005
•	UV anti-blocking additive		UV0014
•	UV Anti-foam additive		UV0006
•	Wash-up solution	for manual washing labelling and reg. free	UV0009 UV0002
•	Photoinitiator	liquid for varnishes liquid for inks (surface cure) liquid for inks (depth cure)	UV0010 UV0012 UV0013
•	Thinner	without photoinitiator	UV0018

Recommended Treatment Levels (DYNES/CM)

Flexo and Gravure	PE	PP	PVC	PET	PS	PVDC	PU	ABS	PTFE	Silicone
Min.:	38	40	36	42	42	42	38	40	36	40
Max.:	50	50	50	54	48	52	50	52	52	50

Average density under lab conditions on treated PE

llow N	lagenta	Cyan	Black
.20	1.10	1.45	1.35
.75	1.60	2.05	2.00
.05	2.00	2.55	2.55
.15	2.35	2.75	2.80
	Ilow N .20 .75 .05 .15	Ilow Magenta .20 1.10 .75 1.60 .05 2.00 .15 2.35	Ilow Magenta Cyan .20 1.10 1.45 .75 1.60 2.05 .05 2.00 2.55 .15 2.35 2.75

This information is only meant for your guidance, we urge you to test our inks and products for your application before starting the actual job.