"BALTINK" SIA
tel: +371 24 422 737
info@baltink.eu
www.baltink.eu

INXFlex™ UV Euro Ink Range

Intense UV Flexographic Inks for Label Substrates and Narrow Web Applications

For more information, or for the INX location in your area, contact:

INX International UK Ltd.
Hilltop Road
Heywood
OL10 2TW
United Kingdom
Phone: +44 (0) 1706 695150
Fax: +44 (0) 1706 625033

Website: www.inxinternational.com

Email: info@inxintl.com

INXFlex™ UV Euro inks have been formulated to provide minimal plate swell for flexographic printing on most tag & label, pressure sensitive, as well as shrink and in-mold label applications. They have been formulated to be Benzophenone, MMMP and ITX free. They are a low viscosity system that can be printed with aniloxes up to 450 l/cm screen with 2.0-4.5 cm^3/m^2 volume. They have good adhesion to a wide variety of substrates.

Safety and Handling

Refer to SDS for safety, handling and waste disposal information.

Storage and Shelf Life

- Containers should be resealed promptly after use.
- Prolonged exposure to sunlight should be avoided.
- For maximum shelf life (12 months from date of manufacture), closed containers should not be stored at temperatures in excess of 25°C.
- Surplus ink from duct should never be returned to original containers.
- Stir inks before use, as some settling may have occurred during storage.

Product Features

- Minimal plate swell in regards to all plate making technologies including digital and fast curing photopolymers
- VOC free
- Formulated to be Benzophenone, MMMP and ITX free
- High pigmentation
- Low viscosity
- Good rheology providing excellent ink duct behaviour
- Cure with press speeds up to 150 m/min (dependent on lamp intensity)
- Good adhesion to a wide variety of synthetic substrates, e.g. PE, PP, PVC[1]
- Compatible for combination printing, e.g. hot foil stamping, rotary screen
- Suitable for shrink sleeve application[2]
- Excellent hold out and gloss on absorbent stocks
- Low migration (LM) range available for indirect food contact, including high resistance (HR) inks

[1]Adhesion should always be checked when printing on substrates prior to use.

[2]Must press test under printer's conditions before running live jobs.

Ink Product Codes

Process Cyan	1451037
Process Magenta	1451036
Process Yellow	1463200
Process Black	1457883
Extender	1460067
Opaque White	1461209
Yellow[3]	1463693
Orange	1459983
Warm Red	1459984
Red 032	1471775
Rubine[3]	1459985
Fast Pink	1528277
Fast Violet	1459986
Fast Strong Blue 072	1459987
Fast Reflex Blue	1527072
Fast Strong Reflex Blue	1514320
Blue[3]	1459988
Green	1459990
Neutral Black	1460066
Dense Black	1518668
Rhodamine[4]	1537811
Violet[4] *	1537812
Purple[4]	1537813
Reflex Blue[4]	1537814

[3]May be used as Process.

[4]Contains dye salt type pigment. Use with caution. Exhibits poor resistance properties and reduced shelf life (6 months from date of manufacture).

Viscosity

400-600 cP at 25°C

Measured with a Brookfield CAP Viscometer, spindle #4 at 900rpm

Anilox Range

Process Work 350-450 l/cm, 2.0-4.5 cm^3/m^2
Line Work 180-195 l/cm, 4.2-8.5 cm^3/m^2
Suitable for use with Apex GTT rollers.

Cure Speed

Adequate UV curing is required for this system. Cure speeds will be dependent upon film thickness, substrates and the type/condition of the UV curing equipment.

"BALTINK" SIA
tel: +371 24 422 737
info@baltink.eu
www.baltink.eu

Fastness/Resistance Properties

Colour	Code	Light Fastness	Bleed Resistance				
			Water	Alcohol	Solvent	Acid	Alkali
Process Cyan	1451037	8	++	/	+	++	++
Process Magenta	1451036	6	-	/	+	/	-
Process Yellow	1463200	5	++	++	++	++	++
Process Black	1457883	8	++	+	+	++	++
Yellow	1463693	5	++	++	++	++	++
Orange	1459983	6	++	++	--	++	++
Warm Red	1459984	4	++	++	+	++	++
Red 032	1471775	4	-	/	+	/	-
Rubine	1459985	4	-	/	+	/	-
Fast Pink	1528277	7-8	++	++	+	++	++
Fast Violet	1459986	7	++	++	++	++	++
Fast Strong Blue 072	1459987	7	++	/	+	++	++
Fast Reflex Blue	1527072	7	++	/	+	++	++
Fast Strong Reflex Blue	1514320	7	++	/	+	++	++
Blue	1459988	8	++	/	+	++	++
Green	1459990	8	++	++	++	++	++
Neutral Black	1460066	8	++	+	+	++	++
Dense Black	1518668	8	++	+	+	++	++
Rhodamine	1537811	3	/	-	-	+	--
Violet	1537812	3	+	-	/	+	+
Purple	1537813	3	/	-	-	+	--
Reflex Blue	1537814	2	+	--	--	--	--

Key

Light Fastness*		Bleed Resistance	
8	Very good	++	Very good
6	Good	+	Good
5	Satisfactory	/	Satisfactory
3	Poor	-	Poor
1	Very poor	--	Very poor

*Blue Wool Scale
NOTE: This information is based on that provided by pigment suppliers. These are guidelines only and not intended to replace actual testing.

"BALTINK" SIA
tel: +371 24 422 737
info@baltink.eu
www.baltink.eu

Baltink

Additives

When difficult substrates or conditions are encountered it may be possible to enhance the ink performance by incorporating one or more of the following additives:

Issue	Additive		Maximum Recommended Addition	Uses	Cautions
	Code	Description			
Poor adhesion due to poor cure	1508549[1]	Photoiniator Blend	3%	Improving through and surface cure for dark colours.	Will cause yellowing of light colours, clears and whites. May reduce intercoat adhesioin and flexibility.
	1509425	Non-Yellowing Photoinitiator Blend	3%	Improving through and surface cure for light colours, clears and whites.	May reduce intercoat adhesioin and flexibility if too much added.
	1509412	Surface Cure Additive	5%	Improving surface cure in all colours. Will also improve hold out on absorbent substrates.	May reduce intercoat adhesioin and flexibility if too much added.
Poor adhesion to substrate	1254998	Adhesion Promoter	3%	Improving adhesion to difficult filmic substrates.	
Difficulty hot foil stamping	1522037	Hot Foil Stamp Additive	1%	Improving hot foil blocking and thermal printing receptibility.	
Viscosity too high	1505138	Reducer	5%	Thinning ink.	Will reduce cure if too much added.
Presence of microfoam	1502924	Air Release Agent	0.5%	Reducing build-up of microfoam.	May affect overprintibility and foil blocking if too much added.
Poor substrate wetting	1266401	Levelling Additive	0.5%	Improving levelling on difficult to wet substrates.	May affect overprintibility and foil blocking if too much added.
Poor scratch resistance	1525467[1]	Scratch Resistance Additive	7%	Increasing scratch resistance and cure.	May reduce intercoat adhesioin and flexibility if too much added.
Poor transfer from rollers	1247876	Transfer Agent	3%	Improving transfer and flow of ink.	

"BALTINK" SIA
tel: +371 24 422 737
info@baltink.eu
www.baltink.eu

[1] This product will re-crystallise over time. In such cases it will be necessary to heat this product at 60°C prior to using.