



NOVA CURE[®]

UV FLEXO INKS

Description:

Universal UV flexo ink range suitable for shrink films as well as general label printing, showing excellent adhesion to a wide range of substrates.

Properties:

- High colour strength
- Excellent adhesion properties
- Printing speeds of 50-150 m/min (dependent on UV lamp power)
- Excellent shrink characteristics, more than 50% with good retained adhesion (dependent on substrate)
- Steam or hot air shrink

SUBSTRATES:

Suitable for a wide range of coated papers and films, and label stocks such as:

- Coated PE, PP, PVC, PET, and OPP
- Shrink films, typically* PVC, PET, PET-G, OPS

*Due to the diverse nature of shrink films it is essential that each grade/application is tested thoroughly prior to commercial production.

The leaflet provides information based on experience and lab experiments, but values may vary in practical use. Customers should ensure product suitability and not base legal claims on the leaflet.



The suitability for uncoated synthetic substrates such as PP should be tested before printing. The surface tension should be 38 dyne/cm or above. Corona treatment should be considered to improve the wetting.

Application:

Mix well before use.

Anilox Selection:

Process: 300-500 l/cm (750-1250 lpi) volume 2-4 cm³/m²

Bases: 120-180 l/cm (300-450 lpi) volume 3-6 cm³/m²

Minimum lamp power – 160 W/cm

Clean equipment immediately after use.

Fully cured UV inks will obtain resistance properties 24 hours after printing.

This ink series is not intended for food packaging applications and is not suitable for direct thermal overprinting.

NOVACURE STANDARD PROCESS SET	BWS	Resistances			
		Alcohol	Acid	Grease	Alkali
Process Cyan NC110-505	7-8	+	+	+	+
Process Magenta NC110-105	5-6	+	(-)	+	(-)
Process Yellow NC110-305	3	+	+	+	+
Process Black NC110-805	7-8	+	+	+	+

ISO PROCESS SET	Comments	BWS	Resistances			
			Alcohol	Acid	Grease	Alkali
Process Dense Black NC110-807	ISO*	7-8	+	+	+	+

The leaflet provides information based on experience and lab experiments, but values may vary in practical use. Customers should ensure product suitability and not base legal claims on the leaflet.



HD PROCESS SET	Comments	BWS	Resistances			
			Alcohol	Acid	Grease	Alkali
Process Cyan NC110-506		7-8	+	+	+	+
Process Magenta NC110-106	Blue Shade	5-6	+	(-)	+	(-)
Process Yellow NC110-306	Opaque	4-5	+	+	+	+
Process Black NC110-806	Standard	7-8	+	+	+	+

* Subject to the choice of anilox, plate, tape and substrate, NovaCure UV flexo process inks allow the printer to achieve ISO12647-6 compliance.

NOVACURE MIXING BASE SCHEME	BWS	Resistances			
		Alcohol	Acid	Grease	Alkali
Extender NC120-001-1	n/a	+	+	+	+
Bright Red NC120-101	7-8	+	+	+	+
Rubine NC120-102	5-6	+	(-)	+	(-)
Rhodamine NC120-114-1	7-8	+	+	+	+
Orange NC120-201	5	+	+	+	(-)
Yellow NC120-304	4	+	+	+	+
Green NC120-402	7-8	+	+	+	+
Process Blue NC120-501	7-8	+	+	+	+
Royal Blue NC120-502	7-8	+	+	+	+
Violet NC120-604	7-8	+	+	+	+
Mixing Black NC120-402	7-8	+	+	+	+
Mixing Opaque White NC120-901	7-8	+	+	+	+

NOVACURE MIXING BASE SCHEME	BWS	Resistances			
		Alcohol	Acid	Grease	Alkali
Warm Red NC120-110	4	+	+	+	+

The leaflet provides information based on experience and lab experiments, but values may vary in practical use. Customers should ensure product suitability and not base legal claims on the leaflet.



NOVACURE ADDITIONAL HIGH RESISTANCE BASES	BWS	Resistances			
		Alcohol	Acid	Grease	Alkali
HR Rubine** NC120-108	7	+	+	+	+
HR Orange NC120-202	7-8	+	+	+	+
HR Yellow ** NC120-302	7-8	+	+	+	+

HR = High resistance to light, weather and chemicals

** These two high resistance bases can be used as a Lightfast Process Magenta and Lightfast Process Yellow

BWS denotes full strength, lightfastness of tints will be reduced 8 = Excellent 1 = Poor

+ = high resistance

(-) = needs testing for suitability by customer

- = poor resistance

These resistances are tested according to:

Lightfastness: ISO2835-1974

Alcohol Resistance: ISO2837-1996

Acid/Grease/Alkali Resistances: ISO2836-1999

Storage & Handling:

Containers should be tightly closed immediately after use. All inks, uncontaminated press returns and unopened ink containers, should be stored at temperatures between 5 C and 25 C.

Shelf life is 12 months from date of manufacture (as seen on the label).

Shelf life of PT120-106 Rhodamine is 6 months from date of manufacture (as seen on the label) and is not recommended to be blended and stored in mixes with other bases.

Safety:

Please refer to relevant SDS for information on labelling classifications, waste product and container disposal, and personal protection measures.

Auxiliary Products:

Cleaner: SOL-4093 UV Wash

The leaflet provides information based on experience and lab experiments, but values may vary in practical use. Customers should ensure product suitability and not base legal claims on the leaflet.