

Novaplast® BIO

The series for foil and other non-absorbent substrates

Special process inks and base colour ink series for sheetfed offset

Product Features

- Novaplast® BIO is an extremely fast oxidative drying series for printing on foil and other non-absorbent substrates that is based on renewable raw materials.
- It consists of the process inks Yellow, Magenta, Cyan, as well as 9 mono-pigmented base colour inks, transparent white and opaque white.
- The main benefit of the Novaplast® BIO-series is extremely fast oxidative drying.

Advantages of Novaplast® BIO

- Especially for printing on foil and other non-absorbent substrates.
- Extremely fast oxidative drying.
- BIO-binders based on renewable raw materials.
- Low swelling.



Novaplast® BIO

			Fastness properties/Opacity					Printing properties									
	In the shade of	Light fastness	Alcohol	Solvent mixture	Alkali	Opacity	Dot gain	Gloss	Setting	Oxidative drying	Rub resistance	Rapid further	Suitability for gloss	coated papers/board	Surtability for uncoated papers/board	Suitability for matt coated papers/board	Suitability for foils
Novaplast® BIO Process Inks		┞▔	₹	Ň	₹	0	5	<u>5</u>	3	7	7	5	5 5		n ≧ 5	ى 5	رة 7
Novaplast® BIO Process Yellow	Process Yellow	5	+	+	+	t		1 = Characteristic weakly expressed 7 = Characteristic strongly expressed									
Novaplast® BIO Process Magenta	Process Magenta HKS® 25K Rubine Red	5	+	+	-	t	The assessment of the colour properties was made under standardised printing conditions. In individual cases, under special conditions,										
Novaplast® BIO Process Cyan	Process Cyan HKS® 47K Process Blue	8	+	+	+	t		as in printing with very high ink densities, the classification of certain properties may be different.									
Novaplast® BIO Process Black	Process Black	8	+	+	+	0											
Novaplast® BIO Base Colour Inks																	
Novaplast® 1 S 102 BIO Yellow	Greenish Yellow	6	+	-	+	t											
Novaplast® 1 S 103 BIO Yellow	HKS® 03K Yellow	5	+	+	+	t											
Novaplast® 1 S 107 BIO Orange	HKS® 7K Orange	5	+	+	+	t											
Novaplast® 2 S 113 BIO Red	HKS® 13K Red 032	5	+	-	+	so											
Novaplast® 222 459 BIO Magenta	Resistant Magenta, caustic soda solution resistant	5	+	+	+	t											
Novaplast® 2 S 129 BIO Magenta	Resistant Magenta advanced light fastness	6-7	+	+	+	so											
Novaplast® 3 S 165 BIO Violet	Resistant Violet	7	+	+	+	t											
Novaplast® 4 S 141 BIO Blue	Resistant Reflex Blue	7	+	+	+	t											
Novaplast® 5 S 153 BIO Green	HKS® 53K Green	8	+	+	+	t											
Novaplast® 1 S 110 BIO transparent white	30.1					t											
Novaplast® 1 S 100 BIO opaque white						0											
		to ISC Fastn 28	fastnes 12040: ess prop 36: + = = Resist														

Opacity:
o = opaque so = slightly opaque
t = transparent

You are welcome to contact us for further information.

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Novaplast® BIO

Drying properties

Substrates

Remarks

Extremely fast oxidative drying.

Foil and other non-absorbent substrates. Generally we recommend testing the drying behaviour and adhesion on the respective substrate before the production run.

When printing plastic foil please consider the following special features:

- Lowest possible damping. With high damping there is the risk of retarded drying or inhibited final drying.
- Care should be taken that the ink does not start to dry in the press, therefore downtime should be avoided.
- The acidity of the offset damping solution should not be set too high, pH-value approx. 5.5.
- Add up to 10% isopropanol alcohol to the damping solution.
- The interval between printing of the various colours should not be too long.
- Powder application and laying down in small stacks are both necessary. Regular ventilation is recommended. When printing foil generally coarse-grained powders should be applied.
- · Store at room temperature.
- No hermetic packaging of the printed products.

The process series is suitable for printing work corresponding to ISO 12647-2.

Exceptions

Hints for the mixing of Novaplast®-spot colours

Not for use for food packages without functional barrier.

With the base colours of the Novaplast® BIO series plus transparent white and black it is possible to mix spot colours – for example from the PANTONE® or HKS® range. Therefore formulations for coated papers must be chosen. The system is completed by a Magenta that offers all fastness properties (Novaplast® BIO 222 459), as well as a Magenta with additionally advanced light fastness (Novaplast® BIO 2 S 129).

Additives and reducers

Further Information

The setting of Novaplast® BIO inks is such that no drying agents need to be added. Mineral oils are not suitable as reducers. We recommend Printing Oil L from Flint Group.

For further information regarding printing on foil and other non-absorbent substrates please refer to our corresponding Technical Review.

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