

# Novaplast<sup>®</sup> BIO

The series for foil and other non-absorbent substrates

### Special process inks and base colour ink series for sheetfed offset

### **Product Features**

- Novaplast<sup>®</sup> 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 11 mono-pigmented base colour inks, transparent white, opaque white and black.
- The main benefit of the Novaplast<sup>®</sup> BIO-series is extremely fast oxidative drying.

### Advantages of Novaplast<sup>®</sup> 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<sup>®</sup> BIO

		Fastness properties/Opacity					Printing properties									
		fastness	loi	ent mixture		ity	ţain		ng	ative drying	resistance	d further essing	bility for gloss ad papers/board	bility for uncoated rs/board	bility for matt ed naners/hoard	bility for foils
	In the shade of	Light	Alcoł	Solve	Alkal	Opac	Dot g	Glos	Setti	0xidi	Rub	Rapio	Suita coato	Suita pape	Suita coato	Suita
Novaplast <sup>®</sup> BIO Process Inks							5	5	3	7	7	5	5	5	5	7
Novaplast <sup>®</sup> BIO Process Yellow	Process Yellow	5	+	+	+	t	1 = C	haracter	ristic we	akly exp	pressed	7 = Cha	racteris	ic stron	gly expre	essed
Novaplast <sup>®</sup> BIO Process Magenta	Process Magenta HKS® 25K Rubine Red	5	+	+	-	t	The mad In in	The assessment of the colour properties was made under standardised printing conditions. In individual cases, under special conditions,								
Novaplast <sup>®</sup> BIO Process Cyan	Process Cyan HKS® 47K Process Blue	8	+	+	+	t	as ir clas	as in printing with very high ink densities, the classification of certain properties may be different.								
Novaplast <sup>®</sup> BIO Process Black	Process Black	8	+	+	+	o										
Novaplast <sup>®</sup> 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	+	-	+	<b>S</b> 0										
Novaplast® 222 459 BIO Magenta	Resistant Magenta, caustic soda solution resistant	5	+	+	+	t										
Novaplast <sup>®</sup> 2 S 129 BIO Magenta	Resistant Magenta advanced light fastness	6-7	+	+	+	<b>S</b> 0										
Novaplast® 3 S 165 BIO Violet	Resistant Violet	7	+	+	+	t										
Novaplast® 4 S 140 BIO Blue	Reflex Blue	3	-	-	+	t										
Novaplast® 4 S 141 BIO Blue	Resistant Reflex Blue	7	+	+	+	t										
Novaplast <sup>®</sup> 5 S 153 BIO Green	HKS® 53K Green	8	+	+	+	t										
Novaplast® 1 S 110 BIO transparent white						t										
Novaplast® 1 S 100 BIO opaque white						0										
		Light fastness properties according to ISO 12040: from 1 (low) to 8 (high)														
		Fastness properties according to ISO 2836: + = Resistance provided														

Opacity:

o = opaque so = slightly opaque t = transparent

You are welcome to contact us for further information.

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## Novaplast<sup>®</sup> BIO

Drying properties	Extremely fast oxidative drying.				
Substrates	Foil and other non-absorbent substrates. Generally we recommend testing the drying behaviour a adhesion on the respective substrate before the production run.				
Remarks	When printing plastic foil please consider the following special features:				
	<ul> <li>Lowest possible damping. With high damping there is the risk of retarded drying or inhibited final drying.</li> </ul>				
	<ul> <li>Care should be taken that the ink does not start to dry in the press, therefore downtime should be avoided.</li> </ul>				
	<ul> <li>The acidity of the offset damping solution should not be set too high, pH-value approx. 5.5.</li> </ul>				
	<ul> <li>Add up to 10% isopropanol alcohol to the damping solution.</li> </ul>				
	<ul> <li>The interval between printing of the various colours should not be too long.</li> </ul>				
	<ul> <li>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.</li> </ul>				
	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	Not for use for food packages without functional barrier.				
Hints for the mixing of Novaplast <sup>®</sup> -spot colours	With the base colours of the Novaplast <sup>®</sup> BIO series plus transparent white and black it is possible to mix spot colours – for example from the PANTONE <sup>®</sup> or HKS <sup>®</sup> range. Therefore formulations for coated papers must be chosen. The system is completed by a Magenta that offers all fastness properties (Novaplast <sup>®</sup> BIO 2 S 180).				
Additives and reducers	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.				
Further Information	For further information regarding printing on foil and other non-absorbent substrates please refer to our corresponding Technical Review.				

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