

Novavit® BCS BIO ND/NA

Base colour ink series featuring variable drying speeds and wide choice of applications and substrates

Base colour ink series for sheetfed offset

Product features

- Novavit® BCS BIO ND/NA is a modern, highly pigmented base colour ink series for sheetfed offset. Based on renewable raw materials it does not contain any drier or antidrier, therefore offering an extraordinarily wide range of applications. The series consists on 12 base colour inks plus black and transparent white and is supplemented by 5 inks with enlarged fastness properties and 2 more with particularly high fastness properties.
- With the help of the Flint Group mixing books (see page 3 below) Novavit® BCS BIO ND/NA is optimally suited for mixing colour shades of the PANTONE® fan. Besides that it can also be used to mix any other colour shade in different fastness variants. Depending on the added drier or antidrier, spot colours with a wide variety of drying or setting characteristics can be produced. The scope ranges from roller-fresh up to oxidative drying, a feature that is ideal for printing on metalized and uncoated papers.
- The series is excellently suited both for the latest generation printing presses and machines of older design and construction.
- Further benefits of Novavit® BCS BIO ND/NA, are the excellent colour intensity, high brilliance and very good setting properties.

Advantages of Novavit® BCS BIO ND/NA

- Variable drying properties.
- Wide range of application.
- Useable on a variety of substrates.
- Highly pigmented.
- Excellent colour intensity.
- High brilliance.
- Very fast setting.

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Novavit® BCS BIO ND/NA	article code	Fastness properties/opaqueness							Printing properties							
		Opauqueness	Light 100 %	Light 10 %	Ethanol	Solvent mixture	Alkali	Caustic soda solution	Gloss	Setting	Oxidative drying	Rub resistance	Rapid further processing	Suitability for gloss coated papers/board	Suitability for uncoated papers/board	Suitability for matt coated papers/board
Yellow	VZ18-100*	t	5	3	+	+	+	+	6	6	**	4**	6	7	7**	7
Orange 021	VZ18-200*	t	5	3	+	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed							
Warm Red	VZ18-300*	so	2-3	1	+	+/-	-	-	The assessment of the colour properties was made under standardised printing conditions. In individual cases, under special conditions, as in printing with very high ink densities, the classification of certain properties may be different. Light fastness properties according to ISO 12040: from 1 (low) to 8 (high) Fastness properties according to ISO 2836: + = Good Resistance +/- = Partly Resistant - = Not Resistant Opauqueness: o = opaque so = slightly opaque t = transparent * Depending on the producing site ** Depending on the property and dosage of the added additive/additives.							
Red 032	VZ18-302*	so	5	3	+	-	+	+								
Rubine Red	VZ18-301*	t	5	3	+	+	-	-								
Rhodamine Red	VZ18-303*	so	4	3	-	-	-	-								
Purple	VZ18-400*	t	4	2	-	-	-	-								
Violet	VZ18-401*	t	3-4	2	-	-	-	+/- ¹								
Blue 072	VZ18-502*	t	4	3	-	-	-	-								
Reflex Blue	VZ18-501*	t	3	2	-	-	+	+/- ¹								
Process Blue	VZ18-500*	t	8	6-7	+	+	+	+								
Green	VZ18-600*	t	8	6-7	+	+	+	+								
Black	VZ18-960*	o	8	8	+	+	+	+								
Transparent White	VZ18-000*	t														

Enlarged fastness properties	article code							
Resistant Yellow	VZ18-153*	t	6-7	5-6	+	-	+	+
Resistant Warm Red	VZ18-363*	so	3-4	2	+	+	+	-
Alkali Rst. Rubine Red	VZ18-346*	t	5	4	+	+	+	+
Rst. Rhodamine Red	VZ18-369*	t	7	5-6	+	+	+	+
Resistant Violet	VZ18-450*	t	7	6	+	+	+	+

highest fastness properties	article code							
Y/S Red	VZ18-355*	t	7	6	+	+	+	+
Resistant Rubine Red	VZ18-366*	t	7	6	+	+	+	-

You are welcome to contact us for further information.

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Novavit® BCS BIO ND/NA

Drying properties

ND/NA – (no drier/no antiskin) doesn't contain drier and antiskin.

Substrates

Depending on the addition of additives, ideally suited for gloss coated, matt coated and uncoated papers and board, as well as metalized papers.

Hints for mixing spot colours

Due to the high colour strength and mono-pigmentation, the base colour inks of Novavit® BCS BIO ND/NA are ideally suited for the easy formulation and mixing of spot colours, and in particular if special fastness requirements are needed. The whole range of PANTONE® colour shades can be achieved with typical wet offset printing film weights.

Mixing books/ calibration data

Mixing formulae for all PANTONE® C and U colour shades are available in the Flint Group BCS mixing book GLOBAL PLUS. An additional mixing book with the denomination GLOBAL FAST contains mixing formulae of PANTONE® C and U colour shades with enlarged fastness properties, as for example requested due to the subsequent print finishing process. Both mixing books, as well as calibration data for computerised ink formulation with X-Rite Ink formulation can be made available upon request.

Additives

Novaspot® 3107 drying paste – to adapt the drying properties, cobalt-free
BCS Antiskin 19 795 – to enable duct-fresh properties
BCS Reducer BIO 19 789 – thinner

Mixing formula examples

Novaspot® BIO – fast setting, duct fresh

Novavit® BCS BIO ND/NA Base Colour Mix	0-95.5 %
Novavit® BCS BIO ND/NA Transparent White	rest
BCS Antiskin 19 795 (VU10-072*)	0.5 %
<u>Novaspot 3107 Paste Drier (VU10-070*)</u>	<u>4 %</u>
Sum	100 %

Novaspot® BIO BOARD – fast setting and oxidative drying, rub resistant

Novavit® BCS BIO ND/NA Base Colour Mix	0-96 %
Novavit® BCS BIO ND/NA Transparent White	rest
<u>Novaspot 3107 Paste Drier (VU10-070*)</u>	<u>4 %</u>
Sum	100 %

Novaform® BIO – fast setting, for further processing in laser printers

Novavit® BCS BIO ND/NA Base Colour Mix	0-97 %
Novavit® BCS BIO ND/NA Transparent White	rest
BCS Antiskin 19 795 (VU10-072*)	1.5 %
<u>Novaspot 3107 Paste Drier (VU10-070*)</u>	<u>1.5 %</u>
Sum	100 %

To adapt viscosity and tack 1 - 3 % BCS Reducer BIO 19 789 can be added.

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Further BCS-Series

Novavit® BCS BIO INTENSIVE – ready-to-print, duct-fresh base colour ink series

Novasens® BCS PREMIUM – ready-to-print, extremely low-odour and low-migration base colour ink series for food packaging printing.

Novaboard® BCS BIO INTENSIVE – rub-resistant, fast drying base colour ink series, especially for the printing of returnable bottle labels.

Exceptions

Not for use on food packaging without functional barrier.

Further information

For further information please refer to our Technical Reviews “Resistance requirements for surface finishing”, as well as “BCS recommendations for mixing spot colours and associated labelling information”.

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