

# Novaboard® BCS BIO INTENSIVE

**Rub-resistant, fast drying base colour ink series, specially for the printing of returnable bottle labels**

## Base colour ink series for sheetfed offset

### Product features

- Novaboard® BCS BIO INTENSIVE is a modern, highly pigmented base colour ink series for sheetfed offset. It is based on renewable raw materials and offers highest rub-resistance and fast oxidative drying. The series consists of 11 base colour inks plus black and transparent white and is supplemented by 2 inks with enlarged fastness properties. It can be used for both coated and uncoated substrates, as well as metalized papers.
- Novaboard® BCS BIO INTENSIVE is also specially suited for the printing of returnable bottle labels. However for this field of application only base colour inks that have the necessary fastness properties may be used – you will find an overview of these products on page 3 of this brochure.
- With the help of the Flint Group mixing books (see page 3) Novaboard® BCS BIO INTENSIVE 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.
- The series is excellently suited both for the latest generation printing presses and machines of older design and construction.
- Further benefits of Novaboard® BCS BIO INTENSIVE are the excellent colour intensity, high brilliance and very good setting properties as well as fast oxidative drying.

### Advantages of Novaboard® BCS BIO INTENSIVE

- Ready-to-print – no addition of drier and/or antidrier.
- Specially for the printing of returnable bottle labels.
- Highest rub-resistance.
- Useable on all coated and uncoated substrates, in particular also for metalized papers.
- Highly pigmented.
- Excellent colour intensity.
- High brilliance.
- Very fast setting and fast oxidative drying.

# Novaboard® BCS BIO INTENSIVE

Novaboard® BCS BIO INTENSIVE	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 coated papers/board	Suitability for uncoated papers/board	Suitability for metalized papers/board
Yellow	VZ21-100*	t	5	3	+	+	+	+	6	6	7	7	6	7	7	7
Orange 021	VZ21-200*	t	5	3	+	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed							
Warm Red	VZ21-300*	so	2-3	1	+	+/-	-	-	<b>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.</b>							
Red 032	VZ21-302*	so	5	3	+	-	+	+	<b>Light fastness properties according to ISO 12040:</b> from 1 (low) to 8 (high)							
Rubine Red	VZ21-301*	t	5	3	+	+	-	-	<b>Fastness properties according to ISO 2836:</b> + = Good Resistance +/- = Partly Resistant - = Not Resistant							
Rhodamine Red	VZ21-303*	so	4	3	-	-	-	-	<b>Opauqueness:</b> o = opaque so = slightly opaque t = transparent							
Purple	VZ21-400*	t	4	2	-	-	-	-	1 Colour shade on labels will change but the caustic soda does not.							
Violet	VZ21-401*	t	3-4	2	-	-	-	+/- <sup>1</sup>	* Depending on the producing site							
Blue 072	VZ21-502*	t	4	3	-	-	-	-								
Process Blue	VZ21-500*	t	8	6-7	+	+	+	+								
Green	VZ21-600*	t	8	6-7	+	+	+	+								
Black	VZ21-960*	o	8	8	+	+	+	+								
Transparent White	VZ21-000*	t														

Enlarged fastness properties	Article code							
Alkali Rst. Rubine Red	VZ21-346*	T	5	3	+	+	+	+
Rst. Rhodamine Red	VZ21-369*	t	7	5-6	+	+	+	+
Resistant Violet	VZ21-450*	t	7	6	+	+	+	+

You are welcome to contact us for further information.

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Products for the printing of returnable bottle labels		Fastness properties/opaqueeness							Printing properties							
		Opaqueeness	Light 100 %	Light 10 %	Ethanol	Solvent mixture	Alkali	Caustic soda solution	Gloss	Setting	Oxidative drying	Rub resistance	Rapid further processing	Suitability for coated papers/board	Suitability for uncoated papers/board	Suitability for metalized papers/board
<b>Novaboard® BCS BIO INTENSIVE</b>	<b>Article code</b>								<b>6</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>7</b>
Yellow	VZ21-100*	t	5	3	+	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed							
Orange 021	VZ21-200*	t	5	3	+	+	+	+	<p><b>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.</b></p> <p><b>Light fastness properties according to ISO 12040:</b> from 1 (low) to 8 (high)</p> <p><b>Fastness properties according to ISO 2836:</b> + = Good Resistance +/- = Partly Resistant - = Not Resistant</p> <p><b>Opaqueeness:</b> o = opaque so = slightly opaque t = transparent</p> <p>* Depending on the producing site</p>							
Red 032	VZ21-302*	so	5	3	+	-	+	+								
Alkali Rst. Rubine Red	VZ21-346*	t	5	3	+	+	+	+								
Rst. Rhodamine Red	VZ21-369*	t	7	5-6	+	+	+	+								
Resistant Violet	VZ21-450*	t	7	6	+	+	+	+								
Process Blue	VZ21-500*	t	8	6-7	+	+	+	+								
Green	VZ21-600*	t	8	6-7	+	+	+	+								
Black	VZ21-960*	o	8	8	+	+	+	+								
Transparent White	VZ21-000*	t														

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# Novaboard® BCS BIO INTENSIVE

## Drying properties

Drying by setting and oxidation.

## Substrates

Very well suited for gloss coated, matt coated and uncoated papers and board, additionally well suited for the printing of metalized paper.

With the addition of drier the series is suitable for printing on non-absorbent substrates in limited cases. We recommend the addition of 1 % BCS Combi Drier 19 791. Please also refer to the mixing formula example for this field of application stated in this brochure. In view of the wide variety of substrates offered by various manufacturers we recommend carrying out your own tests before starting a print run.

## Hints for mixing spot colours

Due to the high colour strength and mono-pigmentation, the base colour inks of Novaboard® BCS BIO INTENSIVE 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

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

Novaplast Drier – drying paste to accelerate the oxidative drying of the surface. Reacts with the fount in the press.

## Further BCS-Series

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

**Novavit® BCS BIO ND/NA** – base colour ink series without any drier and antidrier for variable drying properties.

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

## 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”, “BCS recommendations for mixing spot colours and associated labelling information” as well as “Processing Guideline Novaplast Inks”.

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