

# Novavit® Eco Mix BIO

Duct-fresh, ready-to-print and especially economic base colour ink series

## Base colour ink series for sheetfed offset

### Product features

- Novavit® Eco Mix BIO is a duct-fresh base colour ink series, based on renewable raw materials for sheetfed offset. It consists of 13 base colour inks plus black and transparent white.
- The series can be supplemented by 9 inks of other series. These include 5 inks with enlarged fastness properties of the Novavit® BCS BIO INTENSIVE series and 4 more of the Novavit® Easy Mix BIO ink range that are necessary to mix the 336 new shades of the PANTONE® PLUS system.
- Novavit® Eco Mix BIO is suited to mix colour shades from the PANTONE® PLUS colour book. However the formulations of the colour book can only be adopted to a limited degree.
- The series is excellently suited both for the latest generation printing presses and machines of older design and construction.
- As well as their exceptionally high economic efficiency, Novavit® Eco Mix BIO inks offer high brilliance and very good setting properties.

### Advantages of Novavit® Eco Mix BIO

- Ready-to-print – no addition of drier and/or antidrier.
- Useable on all absorbent substrates.
- High economic efficiency.
- High brilliance.
- Very fast setting.

# Novavit® Eco Mix BIO

Novavit® Eco Mix BIO	Article code	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 gloss coated papers/board	Suitability for uncoated papers/board
								5	5	5	6	6	7	6	7
Yellow	VI62-100*	t	5	3	+	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed						
Yellow 012	VI62-112*	so	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> <p><sup>1</sup> Colour shade on labels will change but the caustic soda does not.</p>						
Orange 021	VI62-221*	t	5	3	+	+	+	+							
Warm Red	VI62-300*	so	2-3	1	+	+/-	-	-							
Red 032	VI62-332*	st	5	3	+	-	+	+							
Rubine Red	VI62-301*	t	5	3	+	+	-	-							
Rhodamine Red	VI62-302*	so	4	3	-	-	-	-							
Purple	VI62-400*	t	4	2	-	-	-	-							
Violet	VI62-401*	t	3-4	2	-	-	-	+/- <sup>1</sup>							
Blue 072	VI62-572*	t	4	3	-	-	-	-							
Reflex Blue	VI62-500*	t	3	2	-	-	+	+/- <sup>1</sup>							
Process Blue	VI62-501*	t	8	6-7	+	+	+	+							
Green	VI62-600*	t	8	6-7	+	+	+	+							
Black	VK62-960*	o	8	8	+	+	+	+							
Transparent White	VI62-000*	t													

You are welcome to contact us for further information.

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<b>Enlarged fastness properties Novavit® BCS BIO INTENSIVE</b>									6	6	5	6	6	7	7	7
Resistant Yellow	VZ19-153*	t	6-7	5-6	+	-	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed							
Resistant Warm Red	VZ19-363*	so	3-4	2	+	+	+	-	<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>							
Resistant Rubine Red	VZ19-366*	t	7	6	+	+	+	-								
Rst. Rhodamine Red	VZ19-369*	t	7	5-6	+	+	+	+								
Resistant Violet	VZ19-450*	t	7	6	+	+	+	+								

<b>New base colour inks** Novavit® Easy Mix BIO</b>	Article code							
Bright Red	VI60-333*	t	3-4	2	+	+	+	+
Pink	VI60-340*	t	7	6-7	+	+	+	+
Medium Purple	VI60-449*	t	7	6	+	+	+	-
Dark Blue	VI60-509*	t	7	6	+	+	+	+

**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

**Opaqueeness:**

o = opaque so = slightly opaque  
t = transparent

\* Depending on the producing site

\*\* new with the introduction of the PANTONE® PLUS system, as of colour book edition "fifth printing"

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# Novavit® Eco Mix BIO

## Drying properties

Drying by oxidation and setting, duct-fresh.

## Substrates

Very well suited for gloss coated, matt coated and uncoated papers and board.

## Hints for mixing spot colours

Due to its mono-pigmentation, Novavit® Eco Mix BIO is ideally suited for easy formulation and mixing of spot inks according to the formulations of the PANTONE® PLUS colour book. However, it should be noted, that the formulations of the colour book can only be adopted to a limited degree. Of course all base colour inks can also be used for single printing.

With the introduction of the PANTONE® PLUS system the colour book was extended by 336 shades. In order to mix these shades, 4 base colour inks of the Novavit® Easy Mix BIO range are available. Novavit® Eco Mix BIO is complemented by 5 mono-pigmented base colour inks with specific fastness properties of the Novavit® BCS BIO INTENSIVE series. This enables mixing of inks that must meet, for example, special fastness requirements because of desired surface finishing. These 5 inks, which are marked with "Resistant", have excellent mixing qualities because of their mono-pigmentation. However, they are not equivalent to PANTONE® base colour inks. Therefore, they are only suited to a limited degree for single printing and the formulations of the PANTONE® PLUS colour book cannot be adopted in all instances of mixing with these inks.

## Additives

BCS Reducer BIO 19 789 – thinner

To adapt viscosity and tack 1 - 3 % can be added.

## Exceptions

Not for use on food packaging without functional barrier.

## Further information

For further information please refer to our Technical Review "Resistance requirements for surface finishing".

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