

# Novavit<sup>®</sup> Easy Mix BIO

Duct-fresh, ready-to-print PANTONE<sup>®</sup> base colour ink series

## Base colour ink series for sheetfed offset

### Product features

- Novavit<sup>®</sup> Easy Mix BIO is a modern, highly pigmented base colour ink series for sheetfed offset. It is based on renewable raw materials and is duct-fresh. The series consists of 17 base colour inks plus black and transparent white and is supplemented by 5 inks of the Novavit<sup>®</sup> BCS BIO INTENSIVE series with enlarged fastness properties and 2 more highly concentrated inks for single printing. With the introduction of the PANTONE<sup>®</sup> PLUS system, the colour book was enlarged by 336 shades that are suitable for water-based and UV varnishing due to their fastness properties. For this purpose, 4 additional base colour inks are required that are also included in the Novavit<sup>®</sup> Easy Mix BIO range.
- Novavit<sup>®</sup> Easy Mix BIO is certified by PANTONE<sup>®</sup> and therefore optimally suited to mix colour shades from the PANTONE<sup>®</sup> PLUS colour book. 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 Novavit<sup>®</sup> EASY MIX BIO are high brilliance and very good setting properties.

### Advantages of Novavit<sup>®</sup> Easy Mix BIO

- Ready-to-print – no addition of drier and/or antidrier.
- Useable on all absorbent substrates.
- PANTONE<sup>®</sup>-certified  
Colour shades can be mixed according to colour book formulations.
- Excellent colour intensity.
- High brilliance.
- Very fast setting.



# Novavit® Easy Mix BIO

Novavit® Easy Mix BIO	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
Novavit® Easy Mix BIO	Article code								6	6	5	6	6	7	7	7
Yellow	VI60-100*	t	5	3	+	+	+	+	1 = Characteristic weakly expressed 7 = Characteristic strongly expressed							
Yellow 012	VI60-112*	so	5	3	+	+	+	+	<p>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.</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>Opauqueness:</b>            o = opaque so = slightly opaque            t = transparent</p> <p><sup>1</sup> Colour shade on labels will change but the caustic soda does not.</p>							
Orange 021	VI60-221*	t	5	3	+	+	+	+								
Warm Red	VI60-300*	so	2-3	1	+	+/-	-	-								
Red 032	VI60-332*	so	5	3	+	-	+	+								
Rubine Red	VI60-301*	t	5	3	+	+	-	-								
Rhodamine Red	VI60-302*	so	4	3	-	-	-	-								
Purple	VI60-400*	t	4	2	-	-	-	-								
Violet	VI60-401*	t	3-4	2	-	-	-	+/- <sup>1</sup>								
Blue 072	VI60-572*	t	4	3	-	-	-	-								
Reflex Blue	VI60-500*	t	3	2	-	-	+	+/- <sup>1</sup>								
Process Blue	VI60-501*	t	8	6-7	+	+	+	+								
Green	VI60-600*	t	8	6-7	+	+	+	+								
Black	VK10-9EM*	o	8	8	+	+	+	+								
Transparent White	VI60-000*	t														

Novavit® Easy Mix BIO New base colour inks**	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	+	+	+	+

\* 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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	Article code	Fastness properties/opaqueeness							Printing properties							
		Opacity	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
<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>Inks for single printing Novavit® Easy Mix BIO</b>	Article code								<b>Light fastness properties according to ISO 12040:</b> from 1 (low) to 8 (high)							
Blue 072 Extra	VI60-507*	t	4	2	-	-	-	+/- <sub>1</sub>	<b>Fastness properties according to ISO 2836:</b> + = Good Resistance +/- = Partly Resistant - = Not Resistant							
Reflex Blue Extra	VI60-505*	t	3	2	-	-	+	+/- <sub>1</sub>	<b>Opacity:</b> o = opaque so = slightly opaque t = transparent							
									¹ Colour shade on labels will change but the caustic soda does not. * Depending on the producing site							

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<b>Drying properties</b>	Drying by oxidation and setting, duct-fresh.
<b>Substrates</b>	Very well suited for gloss coated, matt coated and uncoated papers and board.
<b>Hints for mixing spot colours</b>	<p>Due to its mono-pigmentation, Novavit® Easy Mix BIO is ideally suited for easy formulation and mixing of spot inks according to the formulations of the PANTONE® PLUS colour book. All base colour inks can also be used for single printing.</p> <p>As with the introduction of the PANTONE® PLUS system the colour book was extended by 336 shades, the Novavit® Easy Mix BIO range was completed with 4 additional base colour inks that are required for this purpose.</p> <p>The series 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, such as water-based or UV varnishing. 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.</p> <p>The Novavit® Easy Mix BIO series is completed with 2 highly concentrated shades of blue with the suffix "Extra". These colours were designed for single printing and enable an intensive colour effect with film weights. They are not suited for mixing according to the formulations of the PANTONE® PLUS colour book.</p>
<b>Additives</b>	<p>BCS Reducer BIO 19 789 – thinner</p> <p>To adapt viscosity and tack 1 - 3 % can be added.</p>
<b>Exceptions</b>	Not for use on food packaging without functional barrier.
<b>Further information</b>	For further information please refer to our Technical Review "Resistance requirements for surface finishing".

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