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Novaspot® Fluorescent BIO

Fluorescent Ink Range

Spot colour inks for sheetfed offset

Product features

- Novaspot® Fluorescent BIO inks transform UV light in visible light, thus obtaining their luminescence.
- Fluorescent inks are not self illuminating, they are not radioactive, nor do they contain phosphorescent materials, they do not glow in the dark, but only in daylight.
- The Novaspot® Fluorescent BIO range includes 7 primary colours and 7 secondary colours, which correspond to the PANTONE® colour book. It is supplemented by one special colour: Chartreuse Yellow. The secondary colours can be mixed from primary colours but can also be obtained ready-to-print.
- Novaspot® Fluorescent BIO inks are based on BIO-binders and offer high brilliance and very good printability as well as excellent colour intensity and luminescence.

Advantages of Novaspot® Fluorescent BIO Range

- Ready-to-print.
- Optimal wetting of the pigment through BIO-binders.
- Excellent colour intensity and luminescence.
- High brilliance.
- Very good printability.
- Ideally suited for gloss coated papers and board.

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Novaspot® Fluorescent BIO

		Fastness properties/ opaqueness					Printing properties						
		Opaqueness	Light	Ethanol	Solvent mixture	Alkali	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
Primary colours	**PANTONE® Colour Shade**						3	4	4	3	6	3	5
Novaspot® Fluorescent 220 801 BIO Blue	**PANTONE® 801**	o	7	-	-	-							
Novaspot® Fluorescent 220 802 BIO Green	**PANTONE® 802**	o	2	+/-	-	+							
Novaspot® Fluorescent 220 803 BIO Yellow	**PANTONE® 803**	o	1	-	-	+							
Novaspot® Fluorescent 220 804 BIO Orange	**PANTONE® 804**	o	1	-	-	+							
Novaspot® Fluorescent 220 805 BIO Red	**PANTONE® 805**	o	1	-	-	+							
Novaspot® Fluorescent 220 806 BIO Pink	**PANTONE® 806**	o	1	-	-	+							
Novaspot® Fluorescent 220 807 BIO Violet	**PANTONE® 807**	o	1	-	-	+							
Novaspot® Fluorescent 220 815 BIO Chartreuse Yellow		o	1	+/-	-	+							
Secondary colours													
Novaspot® Fluorescent 220 808 BIO Green	**PANTONE® 808**	o	2	-	-	-							
Novaspot® Fluorescent 220 809 BIO Yellow	**PANTONE® 809**	o	1	-	-	+							
Novaspot® Fluorescent 220 810 BIO Yellow	**PANTONE® 810**	o	1	-	-	+							
Novaspot® Fluorescent 220 811 BIO Orange	**PANTONE® 811**	o	1	-	-	+							
Novaspot® Fluorescent 220 812 BIO Red	**PANTONE® 812**	o	1	-	-	+							
Novaspot® Fluorescent 220 813 BIO Pink	**PANTONE® 813**	o	1	-	-	+							
Novaspot® Fluorescent 220 814 BIO Violet	**PANTONE® 814**	o	1	-	-	-							

1 = Characteristic weakly expressed
7 = Characteristic strongly expressed

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 differ.

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

Opaqueness:
o = opaque so = slightly opaque
t = transparent

You are welcome to contact us for further information.

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Drying properties	Drying by oxidation and setting.
Substrates	Ideally suited for gloss coated papers and board. The luminescence of the inks depends on the whiteness of the paper; the more optical brighteners the paper contains, the less fluorescent effect can be achieved.
Additives	For printing on very picking-sensitive papers, if desired, 1-3 % Printing Oil L or 3-5 % Redux Paste may be added.
Remarks	Novaspot® Fluorescent BIO inks should be printed with the highest possible film thickness (above 2.00 g/m²); the higher the film thickness, the better the luminescence. However, as a result, longer drying times have to be factored-in. The best possible option is a double impression. Due to the higher ink film thickness, Novaspot® Fluorescent BIO inks are less suitable for printing halftone areas and fine line drawings. The light fastness of fluorescent inks is very poor, therefore they should not be used for outdoor posters. It is also not advisable to use them for indoor prints that are exposed to intensive light or direct sun light. By the double impressions, light resistance is increased slightly. Depending on the substrate, to improve rub resistance, coating with an oil-based overprint varnish is recommended. For this, however, care must be taken that the inks are completely dry. Due to the necessary high ink film thickness, attention must be paid to setting lowest possible damp levels and adapting powder settings. The stack height should also be as low as possible. These inks can be washed from the rollers with standard washes.
Hints	Novaspot® Fluorescent BIO Inks can me mixed with each other, however mixing widely diverging colour shades has a negative impact on their luminescence. A mixture of standard sheetfed offset inks and fluorescent inks is also possible. By doing this it is possible to reduce the ink film thickness, but this leads to a consequential reduction in luminescence.
Exceptions	Spot colour ink is not for use on food packaging without functional barrier.
Further information	For further information on the subject of light fastness, please refer to our Technical Review “Light fastness in Sheetfed Offset”.

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