



## Saphira Eco Ink Excel

### The fastest ink series for perfecting printing

**Distinctive quality inks.** The quality of an ink can be characterized by a large number of laboratory and print parameters. These include e.g. fastness parameters such as lightfastness and chemical resistance, and physical (tack, viscosity) and colorimetric properties ( $L^*a^*b^*$ ). Moreover, ink also has to satisfy a whole array of additional print and postpress parameters such as print quality, smoothness in solids and screens, high-gloss effects, rub resistance, etc. Heidelberg® has put together a practical portfolio of inks to cover these special requirements.

**Saphira® Ink Excel.** Saphira Ink Excel is a series of duct-fresh, extremely quick-drying inks made from sustainable raw materials. It is ideally suited for use in both straight printing and perfecting printing. Its advantages include outstanding print sharpness, extremely fast finishing characteristics, and excellent rub resistance. It is suitable for print work in line with process standard ISO 12647-2. The ink also exhibits a high level of process stability, which helps deliver consistent print runs while also enabling maximum cost-efficiency.

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# Saphira Ink Excel

## At a glance:

- Extremely fast-drying series of inks
- Duct-fresh
- Exceptionally fast finishing
- Ideally suited for straight printing and for perfecting printing
- Based on renewable raw materials
- Outstanding ink and water stability – best approximation to process standard ISO 12647-2

## Printing stocks:

- Ideally suited for coated and matt-coated papers and card
- Suitable for a number of uncoated printing stock qualities

## Technical specifications

Fastness	Light	Alkali	Solvent mixture	Ethanol	Hot calendering
Saphira Ink Excel Cyan	8	+	+	+	+
Saphira Ink Excel Magenta	5	–	+	+	+
Saphira Ink Excel Yellow	5	+	+	+	+
Saphira Ink Excel Black, true	8	+	+	+	+
Saphira Ink Excel Black, blue enhanced	8	+	–	–	–

Lightfastness: As per ISO 12040 from 1 (low) to 8 (high); Fastness (other types): As per ISO 2836 + = is fast (resistant)  
– = is not fast (not resistant)

## Printing properties

Gradation	7
Gloss	6
Absorption	6
Oxidative drying	5
Rub resistance	6
Fast finishing	6
Suitability for glossy coated papers/card	7
Suitability for uncoated papers/card	5
Suitability for matt-coated papers/card	6

1 = poor  
7 = excellent

This technical datasheet is intended as a source of information and advice for our customers. However, the successful application of these products depends on a number of factors that are outside our control. As a result, this information cannot serve as a guarantee of any kind.

## Saphira Eco – Eco-Friendly Consumables from Heidelberg

**Approved quality for the entire print shop.** Saphira Eco products are available for all sections of a print shop – from prepress and the pressroom to postpress. For an up-to-date overview of the Saphira Eco product portfolio, go to [www.heidelberg.com/saphira-eco](http://www.heidelberg.com/saphira-eco).

**Our performance promise.** Heidelberg is continuously optimizing the Saphira Eco product portfolio to reflect the latest developments. This process is based on three key principles:

**Substitution:** Whenever possible, mineral and synthetic components of Saphira Eco consumables are replaced with renewable raw materials.

**Reduction:** The human and environmental impact of components in consumables that cannot yet be replaced is minimized as far as possible.

**Offsetting:** When using Saphira Eco consumables, their CO<sub>2</sub> footprint can be offset by purchasing emissions certificates.