

TECHNICAL DATA SHEET

Date: 31.03.2017, Version: 2

Range name :

TEMPO ELITE INTENSE

Description :

Vegetable based and high intensity sheet-fed series, suitable for all sheetfed offset presses including perfecting presses.
Particularly recommended for jobs needing high colour strength and excellent rub resistance.
The series does not contain any petroleum derivatives and no cobalt salt.

Application Fields / Market :

High quality packaging or commercial jobs requiring very intensive shades, such as cosmetic and pharmaceutical packaging, art books, luxury brochures, etc...
This series can be used for the production of secondary food packaging when there is no "low odour" nor low migration requirements.

Product safety:

This series is not suitable for: Food packaging, pharma or hygiene.

For production of primary food packaging, we recommend to use the low odour and low migration series specially developed for this application: TEMPO NUTRIPACK 2, please contact our technical department

For further information, please refer to **Siegwerk's Customer Guidance: Printing Inks for Food Packaging ("Know How")** on <https://www.siegwerk.com/en/our-responsibility/product-responsibility/customer-communications/food-packaging-safety.html>

Substrates:

Coated papers, matt and semi-matt coated papers
All kinds of board

Features - Performances:

- ⇒ **ON THE PRESS SIDE**
 - Easy to use : very good stability and water / ink balance
 - Suitable for all dampening systems with or without alcohol
 - Duct fresh overnight
 - High speed runnability
 - Very fast setting
 - No build-up on the counter-pressure cylinder
- ⇒ **ON THE PRINTING SIDE**
 - High gloss level
 - High colour intensity
 - Superb dot sharpness, contrast and trapping
 - Over-printable with water based and UV varnishes and suitable for lamination
 - Excellent rub resistance

Warning:
PAY ATTENTION TO:

- Some shades are not suitable for overprinting with water based and UV varnishes, or lamination.
- Due to ink and varnish layers and storage conditions, some chemical reactions may occur and cause colour damage. In this case, we recommend to use resistant inks (see overprinting ability in the below tables)
- The use of an IR drier or warm air will improve the setting and the gloss but it is recommended to respect 30°C maximum in the stack.
- These inks have a shelf life of 2 years from the date of production. This has to be interpreted as a warranty of "the best use" concerning the printing properties of the inks, providing the cans are not opened and stored at room temperature. After this date the inks are still usable on the press but their printing properties could eventually be altered in terms of transfer, trapping, optical density and to a certain extent in term of shade by consequence of the transfer.
- For toy applications, please contact our technical department.

Auxiliary printing additives :

When certain substrates or machine conditions imply adjustments of the ink properties, the additives should be chosen in function of this substrate and of the further processing of the printed matter.

Role	Designation	References numbers	Proportions
Thinner	Diluent	61-470295-9	1 to 3 %
Tack reducer	Stargel	61-470080-5	2 to 4%

For Fountain additives and Cleaning products please contact our technical department.

Packing size:

✓	Vacuum Metallic Tins	2.5 kg	Packaging code	1200
✓	Metallic drums with plastic in-liner	200 kg	Packaging code	1530

The range :

Colours	Reference	Fastness			
		IWS (1)	Alcohol	Solvent	Alkali
Yellow	60-303978-5	5	5	4	5
Magenta	60-807261-7	5	5	5	3
Cyan	60-115914-8	8	5	5	5
Black	60-903575-3	8	2	3	5

(1) These light fastness values refer to a solid tone printing. Light fastness decreases when colour strength is reduced or if colours are intermixed.

We do not recommend to use above Black inks for mixing system

This information is based on our experience and on results obtained in the laboratory, using specific processes and types of application. In view of the diversity of substrates and printing conditions, this data is communicated for information purposes only and is provided without any warranty on our part and must be authenticated by industrial tests before the products are used. Improvements are being made to our products on an ongoing basis and we therefore reserve the right to modify their composition as well as the contents of our technical data sheets. We disclaim any liability for applications for which this ink series is not foreseen.