

Technical Datasheet

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Product Name

SICURA Innova (62-LC)

1. Description / Application

Luminescent pastes which can be added, by intensive stirring, to varnishes which cure by radical mechanism with UV light. **Suitable e.g. as promotion or security application.** At ambient light (artificial light or daylight), the prints are colourless to fairly coloured, while they **shine intensively in blue or yellow when illuminated with UV dark light** (UV lamp, Disco UV light).

2. Product Safety

Intended Use

Food packaging, pharma, or hygiene: **NO**

Only acceptable for food packaging if the processing conditions rule out the possibility of set-off in the reel or stack and the design of the final printed article ensures reliable functional barrier properties to migration. 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> in particular chapter 5. "The printer's selection of ink" has to be observed.

3. Properties

Light fastness

The light fastness is very low, usually not higher than WS 1 (ISO 2835).

4. Printing and processing instructions

As the printing and processing behaviour depends largely on the specific varnish in which the luminescent pastes are stirred-in, tests must be carried out for every print job to ensure the suitability of the product for the desired application. For support, please contact your Siegwerk representative.

Guidelines for use

Before the print job is started, new materials must be checked for compatibility with the inks of this series or with the planned ink-/overprinting varnish combination, even if their suitability on a comparable type of the same substrate group is proved.

The test prints, especially on self-adhesive labels, have to be examined after die-punching (in particular at the edges), for adhesion, resistance to scratching and water (resistance to wet scratching and scuffing), adhesion and scratch resistance after heat-sealing, resistance of the printed ink to the packaging contents and other application-specific requirements.

Due to the post-curing process, these properties may change during the first 24 hours after printing. Therefore please make a re-check after one day.

Consequently, for every new job in which printing is done on a known material, but with untested ink and printing combinations, the aforementioned tests have to be carried out as well.

Stir up well the pastes before use, as essential components settle during storage. Before processing such products, please make sure that all components are well dispersed again.

Do not handle products without having consulted the corresponding safety data sheets. We supply them together with the first shipment.

Cleaning

The inks can be removed from tools by using methoxypropanol.

Reactive UV thinners are not suitable for cleaning.

5. Shelf life

The pastes of this series have under normal conditions a shelf life of **at least 9 months**. Within this period the products are usable in conformity with the indications of this data sheet.

Normal conditions mean:

- Storage in firmly closed, not yet tapped containers.
- Temperatures not exceeding 20°C for weeks or 25°C for days.
- Do not expose open containers to direct sunlight or strong light sources.

6. Product list

71-470092-9	62-LC Luminescent paste blue E03	(1 - 3%)
71-380223-9	62-LC Luminescent paste yellow E01	(10 - 20%)
71-880265-5	62-LC Luminescent paste red E01	Available upon request.*

* Please consult our technical services for more information.

Because of the differences in materials for printing, processing conditions and test criteria this Technical Data Sheet can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Your own tests with the original materials under the respective conditions are indispensable. We disclaim any liability for applications for which this ink series is not foreseen.