



# Technical Information

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## Product Name

85-601640-7 78-3 Varnish E05

## 1. Description / Application

Screen overprinting varnish curing with UV-light by radical mechanism for in-line varnishing in Flat and Rotary Screen printing.

## 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 / Substrates

### Substrates

Corona treated PE and PP, primered substrates.

Preliminary adhesion tests are recommended.

## 4. Printing and processing instructions

### Screen and printing recommendation

Flat: 120 - 140T

Rotary: Screeny KM, RM 305 (13%)

Flatbed printing: The varnish is ready to print.

Rotary Screen printing: Can be thinned, if necessary, with 5 % **71-470099-4** (ADD Reactive diluent E26).

### **IMPORTANT**

Before using, acclimatize and stir well because of viscosity.

The varnish gets more mouldable / thinner by movement + temperature increase.

In case of doubt, please contact in time our technical department.



Guidelines for use

*Before the print job is started, new materials must be checked for compatibility with the planned overprinting varnish/inks 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), resistance to the packaging contents and other job-specific requirements.*

*Due to possible different material shrinkage and other alterations, these examinations must be repeated after one day.*

*Levelling/printability, mechanical resistances (e.g. adhesion, folding resistance, punching resistance), resistance to water and the weather, and in particular the resistances to the packaged products, depend largely on the properties of the pre-printed inks. The latter is particularly applicable if the ink film on the punching edge is exposed, and hence subject to lateral attack.*

*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.*

**Optimum performance is achieved by using the following criteria in the selection of the printing inks:**

- Preferably radical UV-Letterpress, UV-Offset, UV-Screen printing or UV-Flexo inks.
- Best possible adhesion and resistance to water on the substrate to be printed.
- Best possible resistance of the printing ink series used to the packaged product

Please see also the information on the material safety datasheet.

Cleaning

The varnish can be removed from tools by using methoxypropanol.

**5. Shelf life**

This varnish has under normal conditions a shelf life of **at least 12 months**. Within this period the product is 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.

Because of the differences in materials for printing, processing conditions and test criteria this Technical Information 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 product is not foreseen.