



Technical Information

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Product Name

85-601669-6 Litho Offset Release varnish E02

1. Description / Application

UV curing release varnish, suitable for dry-offset 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

Properties

- fast and assured curing
- good abrasion resistance
- scratch resistant

Substrates

Prints with good adhesion and with good resistances to water, cosmetics, lotions, shampoos, alcohol, cleaning agents and solvents are normally obtained - provided that a correct selection of the individual pre-printed inks is done and proper application conditions are achieved - on following substrates:

- Coating of coated and uncoated paper and board qualities.
- Coating of certain plastic substrates (synthetic paper, PE, etc.), for certain substrates a pre-treatment is required.

Other substrates after technical evaluation.

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

4. Printing and processing instructions:

Stir the varnish very well before use, to obtain the above mentioned properties.
For printing on inks containing high amounts of waxes, a preliminary test is recommended.

colour	: light greyish
gloss level	: low
viscosity	: 2 – 4 Pas (40 mm, 30°C, 50 1/s, MRC 301 UV-Offset SF)
dry solid content	: 100 %



Guidelines for use

Before the print job is started, new materials must be checked for compatibility with the planned 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 weather resistance, 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 curing UV-Letterpress, UV-Offset, UV-Screen or UV-Flexo inks.
- UV inks without or with low content of surface additives (series for hot foil stamping).
- Best possible water resistance and adhesion on the selected substrate.
- Selection of the ink series with the best possible resistance to the packaging contents.
- Exclusion of specific shades which contain pigments with poor fastness to the specified packaging content e.g. poor light and weather fastness.

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.