Technical Information

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Product Name

85-600587-1 Nutriflex Varnish semi-matt E01

1. Description / Application

Semi matt overprint varnish curing by radical mechanism, to be applied with flexo varnishing units. Suitable for a wide range of plastic materials and other substrates for all in-line types of UV-Flexo label- or packaging printing machines.

2. Product Safety

Intended Use

Food packaging, pharma, or hygiene: YES

Only for food packaging inks

These inks are only suitable for use on the non-food-contact side of food packaging, provided that they are applied using the relevant Good Manufacturing Practices (a system for ensuring that products are consistently produced and controlled according to quality standards) and according to the guidelines in this Technical Data Sheet.

The printer, converter and the packer/filler each have a responsibility to ensure that the finished - printed - article is fit for the intended purpose(s) and that the ink and coating components do not migrate into the food at levels that exceed legal, regulatory and industry defined requirements.

Please refer to Siegwerk’s “Statement of Composition” for further regulatory information.

In case of specific applications, please contact your technical application service.


3. Properties / Substrates

Properties

- odour, off-flavour and migration risk particularly small
- excellent water and product stabilities
- excellent heat-sealing resistance
- with suitable printing carrier and cross-linking agent pasteurization- and sterilization-resistant
- not stampable, not overprintable by thermal transfer

Substrates

Adhesion, resistance to scratching and scuffing, water resistance (wet scratch and wet scuff resistance), heat-sealing resistance and resistances to fats, acid or alkaline products, cosmetics, lotions, shampoos, alcohol, cleaning agents and solvents are normally obtained on standard label substrates. Suitability of each substrate has to be tested before print run.

In case of doubt, consult our technical service.
4. Printing and processing instructions

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 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 curing 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.
- 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.