



PRINTLAC® Rub resistant 10 L 9700

Range of application

This protective varnish is a particularly rub-resistant type of printing varnish, as required for certain folding boxes and other packaging, for example. 10 L 9700 stands out thanks to its quick setting and short oxidative drying characteristics. As a result, the length of time before the print sheets can be further processed (converted) is shortened. The gloss values achieved with high-gloss varnishes cannot be achieved with this product.

PRINTLAC® Rub resistant 10 L 9700 is suitable for inline application, but it should preferably be used for wet-on-dry varnishing because greater film thicknesses can be transferred with this process.

This varnish can be used either with or without fount solution.

Contact yellowing cannot be completely ruled out when printing varnishes are used. This is caused by volatile, yellowish coloured decomposition products being formed during oxidative drying; these products can be deposited in the paper coating or even react chemically with constituents of the coating.

By conducting extensive development work, however, we have succeeded in greatly reducing the level of unfortunately unavoidable yellowing and in producing print results that are as good as free of yellowing considering an oil-based varnishing system has been used.

Special characteristics

- Good gloss.
- Fast oxidative drying.
- Fast setting.
- Very good pile behaviour.
- Very good abrasion resistance.
- Little tendency to yellowing.

Advantages of print varnishes over other coating systems

In the field of package printing, print varnishes have now largely been replaced by alternative coating systems, for example by dispersion coatings. In other areas, however, the use of print varnishes is essential.

Some of the reasons for this:

- They guarantee spot varnishing true to register.
- It is possible to coat light-weight papers with the substrate remaining dimensionally stable.
- Oil-based varnishes can be seen as unpigmented offset printing inks. They are therefore handled in the same way, which includes the use of the same washing mediums. There is no requirement for the inks to possess particular fastness properties (for example resistance to solvent or alkalis).

Special remarks

Note should be taken of the following when using print varnishes:

In contrast with dispersion coatings and UV coatings, print varnishes are comparatively slowdrying. The mechanism of oxidative drying, which produces stable coating films in print varnishes as a result of the cross-linking of fatty acid chains, can occupy several hours or even days, depending on the drying conditions. Drying can be accelerated by the use of IR radiators. However, pile temperatures of more than 35 °C must always be avoided as there is a risk of blocking. The use of inks in pre-printing that stay fresh can result in the delaying of varnish drying, especially on papers with low absorption capacity.

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Standard print varnishes are not suitable for finishing food packaging. The fission products necessarily formed as part of the oxidative drying process can affect the smell and taste of the contents which prohibits their use.

Printing additives

The specified print varnishes are ready for printing and can normally be used without the help of additives. If in exceptional cases it is necessary to reduce the tack for papers that are particularly susceptible to picking, **Linseed Oil/Printing Oil 1405** should be used.

Labelling

German Hazardous Substances Ordinance (GefStoffV): none

Safety data sheet available on request.

How supplied

Standard container 2.5 kg

Special sizes on request.

Contact addresses for advice and further information: www.hubergroup.de

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