

PRINTLAC® Spezial 10 L 4160 Overprint Paste

Application

PRINTLAC® Spezial 10 L 4160 is a particularly good-drying and abrasion-resistant type of print varnish, imparting neither a gloss enhancement nor a matting effect to the printed surface but keeping its appearance more or less unchanged.

It is advantageous to use this varnish especially

- for jobs showing a lack of drying or rub resistance,
- as a protective coating for prints on matt-coated stocks to prevent scuffing or carbonizing effects.

This varnish can be run with or without fount application, whereby the latter is to be preferred if prints have insufficiently dried. PRINTLAC® Spezial 10 L 4160 lends itself ideally for wet-on-dry application but can also be printed wet-on-wet.

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 properties

- Silky surface gloss.
- Quick 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In the field of package printing, print varnishes have now largely been replaced by alternative coating systems, e.g. by dispersion coatings. In other areas, however, the use of print varnishes is still 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 ink to possess particular fastness properties (e.g. resistance to solvents 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 effect the smell and taste of the contents which prohibits their use.

Printing auxiliaries

The specified print varnish is ready for printing and can normally be used without the help of auxiliaries. 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.

It is not advisable to add drying agents to print varnishes as an overdosage tends more to inhibit drying rather than promote it.

Labelling

German Hazardous Substances Ordinance (GefStoffV): none

Safety data sheet available on request.

How supplied

2.5-kg standard container

Special sizes on request.

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

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