

PRINTLAC®

## PRINTLAC® special overprint paste

10 L 4160

PRINTLAC special overprint paste 10 L 4160 is a particularly good-drying and rub 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.

### Application

PRINTLAC special overprint paste 10 L 4160 is suitable for both wet-on-wet printing and offline varnishing in a second pass. It can be used either with or without fount solution.

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 overprint varnish contains mineral oil and is not recommended to be used in packaging printing.

### Properties

- Neutral matt / gloss properties
- Quick oxidative drying
- Fast setting
- Very good pile behaviour
- Very good abrasion resistance
- Little tendency to yellowing
- Cofree

### Strengths of print varnishes

- They guarantee spot varnishing true to register, for a budget price, without demanding special press equipment
- It is possible to coat light-weight papers with the substrate remaining dimensionally stable, because of the lowered water impact compared to water-based coatings
- Oil-based varnishes are so similar to offset printing inks, that they can be handled in the same way (including roller washes). Thanks to this fact, inks underneath don't need to possess particular fastnesses (for example resistance to nitro or alkalis)

## Additional information

When using print varnishes, contact yellowing can't be completely excluded. This is due to volatile fission products arising during the drying process, which may deposit in the paper coating and lead to a chemical reaction with constituents of the paper coating. Despite all efforts to prevent the yellowing by a suitable ink formula, some coated papers tend to be more sensitive than others. Therefore we recommend using papers you know or you have tested. (See INKFORMATION 4 for test methods)

In contrast with water-based coatings and UV coating, print varnishes are comparatively slow-drying. 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 duct-fresh (stay-open) inks in pre-printing can result in delaying the varnish to dry, especially on papers with low absorption capacity.

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 auxiliaries

The specified print varnish is ready for printing and can normally be used without the help of additives. However, under exceptional circumstances it may become necessary to adapt the varnish to special printing conditions. The auxiliaries mentioned below are compatible with the highly developed vehicle system:

- for reducing tack with substrates that are susceptible to picking **Ink Oil 10T1405**

## Classification

Safety data sheet available on request.