



The UV varnish **TECHNOLAC LB 50** is a highly glossy UV-curing overprint varnish for high-quality finishings. It can be applied by means of a varnishing or flexographic machine provided with an UV-curing system.

The UV varnish **TECHNOLAC LB 50** is an ultraviolet drying varnish with excellent rheological properties for the coating of plastic materials, such as polypropylene, polyesters and their metallized products, paper and cardboard, in order to produce a highly glossy finish on them, as well as a high abrasion resistance.

The UV varnish **TECHNOLAC LB 50** is **NOT** advisable for reprinting, stamping, or sizing.

The use of the UV varnish **TECHNOLAC LB 50** on inks with a low physicochemical resistance, such as colours formulated with Rhodamine, Purple, or Reflex Blue, may cause the bleeding of the inks.

The UV varnish **TECHNOLAC LB 50** can be applied wet-on-wet on UV inks; however, it is **NOT** advisable to use it on line on conventional inks.

### **PRINTABLE SUBSTRATES**

- Paper (particularly the one used for the production of self-adhesives labels)
- Thin cardboard
- Corrugated board
- Non porous substrates (metallized items, several plastics)

### **FINAL PROPERTIES OF THE VARNISH**

The gloss, the sliding capacity and the levelling properties are very good; while the yellowing, and the tendency to blocking in proper curing conditions are low.

### **TRANSFORMATION AND CROSSLINKING**

Curing is carried out in tunnels that are equipped with medium-pressure mercury lamps. The curing speed is 30 m/min per lamp of 80W/linear cm for a 7 $\mu$  product layer.



### **TECHNICAL CHARACTERISTICS**

Solids content	100 %
Viscosity (Ford Cup n° 4 at 25°C)	40-60 sec.
Viscosity (Brookfield at 25°C)	150-225 cPs
Curing speed	150 m/min with 2-3 lamps of 160 W/cm.
Flash Point:	> 100 °C.
Physical form	Whitish liquid
Colour (Gardner)	≤ 2

### **APPLICATION**

The UV varnish **TECHNOLAC LB 50** can be applied either by means of a varnishing of a flexographic machine or of offset printing machine with dampeners, all equipped with a UV curing system.

The rate of varnish depends on the base material to be treated. The usual quantity ranges between 3 and 7 g/m<sup>2</sup>.

### **CLEANING**

Any part of the machine having been exposed to direct contact with the product ought to be cleaned with suitable solvents.

### **PACKAGING**

The UV varnish **TECHNOLAC LB 50** is delivered in 25 kg or 200 kg drums, as well as in 1.000 kg containers.



### **USEFUL LIFE AND STORAGE**

The UV varnish **TECHNOLAC LB 50** has to be kept **tightly closed in its original container and stored at a temperature between 5 and 20°C**. Direct exposure to the light or to the rays of sunlight, as well as a prolonged stay at temperatures above 40°C, should be avoided. Since the useful life varies a lot due to reasons beyond the manufacturing and the packaging processes of the product (storage conditions, carriage, etc), we guarantee the perfect condition of the product up to twelve months from its manufacture. Should the product be used after that date, some preliminary tests must be carried out.

### **SAFETY AND HANDLING**

Although the components of The UV varnish **TECHNOLAC LB 50** show a low DRAIZE irritation index, the product should be handled cautiously, avoiding the contact with the skin, particularly with the eyes. There is also a Safety Data Sheet available for this varnish.

### **REMARKS**

Owing to the variety of working conditions, of materials to be used, and of the different nature of the products involved in these operations, as well as to the different uses of the finished product, we recommend to carry out preliminary tests in order to check whether there is any incompatibility with the varnish during and after the varnishing process.

The information given herein is, to the best of our knowledge, true and accurate, but it is given as guidance only and is not to be taken as a warranty of results.