

## LABITEX WB 647 BB

### Product description:

Glossy water-based barrier varnish, which along with barrier properties in relation to food fats, oils and water also has the ability to be heat sealed.

Designed to combine barrier properties with the ability to be simultaneously heat sealed (glued). Created for food packaging, including packaging for direct contact with food.

### Physical characteristics:

Flash point:	> 100°C
Viscosity (20 <sup>0</sup> C):	45±5 (DIN-4)
Solid content:	45±3%
pH:	7,9±0,2
Gloss (60 <sup>0</sup> ):	> 70
Slip:	Low
Rub resistance:	Good
Hot stamping:	Yes
Glueability (without special glue):	Yes
Freeze stability:	No

### Product features:

- Activation temperature 130 °C, optimal sealing temperature - 160 °C.
- Has the property of heat sealability: the varnished side can form a weld with the reverse side of substrate when heated above the activation temperature.
- High barrier properties in relation to food fats (fat resistance) and water (water resistance).
- Suitable for direct contact with food.

### Substrate:

Paper	*	*** Perfect suitable
Cardboard	***	** Suitable
Non-absorbent substrates <sup>1</sup>	*	* Tests recommended
Treated non-absorbent substrates <sup>1</sup>	*	x Not suitable

<sup>1</sup>Label paper, laminated cardboard and synthetic substrates ( PP, PE, PVC, OPP and etc.)

### Application:

- Equipment: Offset press coating unit.
- To ensure good barrier properties, a single application with a layer of at least 12 g / m<sup>2</sup> of varnish "in wet way" (anilox of at least 36 cm<sup>3</sup> / m<sup>2</sup>) is recommended. Twice repeated application by anilox of a smaller volume is allowed.  
The volume of application of barrier blister varnish is highly dependent by the absorbency of the sealed substrate. Preliminary tests of barrier and glue properties should be carried out before printing of the main print run
- Machine mode: The temperature of printing machine should be controlled to avoid heating and adhesion.

All components of the machine, including shafts and hoses must be adapted to work with water materials. The temperature in the foot should be controlled (not higher than 30 ° C) in order to avoid overheating and gluing.

**STIR COATING WELL BEFORE USE!**

Version dated 21/02/2020

### Prior tests are recommended before any commercial work.

The information contained herein is based on our knowledge, true and correct. Any recommendations are made without guarantee, as the conditions of use are beyond our control. Our technical department may be contacted for further information.

## WATER BASED COATINGS APPLICATION GENERAL GUIDELINE

<b>Application viscosity:</b>	As supplied.
<b>Coating diluent:</b>	Water. 1% maximum.
<b>Coating drying:</b>	Hot air flow 50-60°C. The temperature in the pallet should be below 30°C.
<b>Equipment clean-up:</b>	Liquid coating – warm water. Dried coating – ethyl acetate or another solvent.
<b>Coating and inks:</b>	It is not recommended to varnish oil based offset paints based on the following unstable pigments: Warm Red, Rhodamine, Purple, Purple, Blue Reflex, Blue 072. In this case, use special resistant colors.

It is possible to apply the UV-coating on top of the Labitex WB varnish dried film. For the best adhesion of the UV coating special primer is recommended.

### **Prior tests are recommended!**

<b>Storage:</b>	The recommended storage temperature is 18-22°C. Guaranteed shelf life is 12 months in closed original packaging.
<b>Safe handling:</b>	All works should be proceeded in the ventilated working area. For more information, please, see the MSDS.

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### Notes

- All information provided in this Technical Data Sheet (TDS) including the recommendations for application is based on our current knowledge and experiences.
- The information about technical specifications (such as slip angle or reactivity) is based on our examinations under laboratory conditions and the mentioned values can differ from the practice.
- This document is provided for informational purposes only and do not release users from carrying out their own tests and trials.
- We reserve the right to change product properties according to the newest requirements of technical progress, amendments and additions to the list of restricted raw materials. These changes do not bring negative impact on the technical characteristics of the product.

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