

LABITEX UV 212 LED GS LM

Product description:

Glossy UV curable varnish, designed for curing by help of highly reactive drying equipment under H-UV, LED-UV lamps. The varnish is based on photoinitiators with low migration and low odor status. Silicone free.

Physical characteristics:

Flash point:	> 100°C
Solid content:	100% VOC-free
Viscosity (20°C):	50±5 (DIN-4)
Gloss (60°):	> 90
Slip angle:	> 17°
Curing speed:	52 m/minute with lamp 60 W/cm (laboratory conditions)
Hot stamping:	Yes
Glueability (special glue):	Yes
Overprinting:	Testing is needed

Product features:

- High gloss
- High reactivity
- Low migration and low odour
- High slip.

Substrate:

Paper	***	*** Perfect suitable
Cardboard	**	** Suitable
Non-absorbent substrates ¹	X	* Tests recommended
Treated non-absorbent substrates ¹	**	x Not suitable

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

Application:

- Equipment: Offset press coating unit;
Flexographic machine.

The machine should be adapted to work with the LED UV materials, including rollers and hoses. The lamps and reflectors should be clean and changed regularly in order to cure LED UV-varnish properly.

- Film thickness: 2-4 g/m² (with standard anilox), strongly depends on the absorbency of the substrate.

Suitability of the UV coating for different UV curing dryers:

Hg ¹	O ₃ -free ²	Fe	Ga	LE-UV ³	LED 365	LED 395 ⁴
No	No	No	No	Yes	Yes	Yes

¹ standard medium pressure mercury UV lamp

² Ozone-free mercury UV lamp

³ Iron doped Ozone-free, like H-UV etc.

⁴ including LED-UV dryers with wave lengths 385 and 405 nm.

Version dated 25/09/2023

STIR COATING WELL BEFORE USE!

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.

UV COATINGS APPLICATION GENERAL GUIDELINE

- Application viscosity:** As supplied. It is possible to heat the UV coating to reduce the viscosity and improve the leveling (do not heat UV coating over 40°C). The viscosity is strongly depends on temperature.
- Polymerization:** Adequate LED UV curing is required for the coating.
- Equipment clean-up:** Wash, suitable for UV coatings.
- Coating and inks:** 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.
- During the application on:**
- Inks, containing waxes or silicones;
 - Water-based and conventional OPV not designed as special primers.;
 - Prints, passed through infra-red dryers,
 - Other substrates with surface tension below 38 Dyn/cm.
- Could be problems with substrate wetting and adhesion.
The UV coating should be applied on thoroughly dried inks. In case of the conventional offset inks the thorough drying could takes 12-48 hours and more, depending on ink, substrate, film thickness and others printing settings.
- Prior tests are recommended!**
- Ecology and safety:** For specific environmental/food compliance requirements, please contact our technicians for more information.
- Storage:** The recommended storage temperature is 18-22°C. Shelf life is 12 months in closed original packaging. Avoid direct sunlight.
- Safe handling:** Avoid any contacts with skin and eyes. 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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