

"BALTINK" SIA tel: +371 24 422 737 info@baltink.eu www.baltink.eu



## **LABITEX UV 915 MAT GS**

### **Product description:**

Dull UV-coating for the flat screen printing on paper and cardboard.

Suitable for flexographic printing on paper and treated synthetic substrates. The coating has deep matt effect and soft feel effect. Suitable for the hot foil stamping. Silicone-free.

#### Physical characteristics:

Flash point: > 100°C

Solid content: 100% **VOC-free** 

Viscosity ( $20^{0}$ C): 345±35 Gloss: <15 Slip angle: 25°±5°

Curing speed: 19 m/minute with lamp 60 W/cm (laboratory conditions)

Hot stamping: Yes
Glueability (special glue): Yes
Overprinting: Yes

#### **Product features:**

- Deep mat effect
- Soft feel effect
- Suitable for the hot stamping

#### **Substrate:**

Paper	***
Cardboard	***
Non-absorbent substrates <sup>1</sup>	**
Treated non-absorbent substrates <sup>1</sup>	**

<sup>\*\*\*</sup> Perfect suitable

\*\* Suitable

## **Application:**

• Equipment: Automatic or manual flat silk screen printing press. Mesh 120-165 line/cm

Flexographic machine (The best results are achieved with the anilox 80

line/cm with the cell volume 14 cm<sup>3</sup>/m<sup>2</sup>).

The machine should be adapted to work with the UV materials, including rollers and hoses. The lamps and reflectors should be clean and changed regularly in order to cure UV-varnish properly. The coating contains the monoacrylate, which could be aggressive to some printing plates.

The usage of the iron doped UV lamp can improve the mat effect.

• Film thickness: Strongly depends on the absorbency of the substrate and the screen mesh.

### Suitability of the UV coating for different UV curing dryers:

Hg <sup>1</sup>	O <sub>3</sub> -free <sup>2</sup>	Fe	Ga	LE-UV <sup>3</sup>	LED 365	LED 395 <sup>4</sup>
Yes	No	Yes	No	No	No	No

<sup>&</sup>lt;sup>1</sup> standard medium pressure mercury UV lamp

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## 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.

<sup>\*</sup> Tests recommended

X Not suitable

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

<sup>&</sup>lt;sup>2</sup> Ozone-free mercury UV lamp

<sup>&</sup>lt;sup>3</sup> Iron doped Ozone-free, like H-UV etc.

<sup>&</sup>lt;sup>4</sup> including LED-UV dryers with wave lengths 385 and 405 nm.



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# 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 UV curing is required for the coating. Cure speeds will be

dependent upon film thickness, substrates and the type/condition of the UV

curing equipment.

**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 recomended!

**Storage:** The recommended storage temperature is 18-22°C. Guaranteed 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

## STIR COATING WELL BEFORE USE!

#### 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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