

LABITEX UV 908 SD

Product description:

Structure matt UV-coating designed for the flat screen printing on paper and cardboard, as on well as non-absorbent substrates after preliminary tests. The coating has deep matt and tactile effect like as “sandpaper”. Available into two versions Labitex UV 908 SD/50 and 908SD/100 where 50 and 100 are the relative size of structure particles. The Labitex UV 908 SD / 50 is also suitable for application by anilox roll (flexographic section).

Suitable for the hot foil stamping (test before run is required). Silicone-free.

Physical characteristics:

Flash point:	> 100°C
Solid content:	100% VOC-free
Viscosity (20°C):	Not determined
Gloss:	Not determined
Slip angle:	Not determined
Curing speed:	20 m/minute with lamp 60 W/cm (laboratory conditions)
Hot stamping:	Yes
Glueability (special glue):	Yes
Overprinting:	Yes

Product features:

- Deep matt and effect tactile “sandpaper” effect
- Suitable for the hot stamping (the test before run is required)

Substrate:

Paper	***
Cardboard	***
Non-absorbent substrates ¹	**
Treated non-absorbent substrates ¹	**

*** Perfect suitable
** Suitable
* Tests recommended
x Not suitable

¹Label paper, laminated cardboard and synthetic substrates (

PP, PE, PVC, OPP and etc.)

Application:

- Equipment: Automatic or manual flatbed silk screen printing machine. Mesh 60 line/cm is recommended for 908 SD/50 and 35 line/cm is for 908 SD/100. Labitex UV 908 SD/50 can be used with anilox (20 cm³/m²) for flexographic machine.
- Machine mode: 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 to cure UV-varnish properly.
Matte varnishes should be mixed before use for at least 20 minutes mechanically.
- Film thickness: Strongly depends on the absorbency of the substrate and the screen mesh. Recommended layer about 30 gr/m² is for Labitex UV 908 SD/50 and 50 gr/m² is for Labitex UV 908 SD/100

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
Yes	No	Yes	No	No	No	No

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

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 depending 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 recommended!**
- 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
- Version dated 23/02/2017

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