FreiLacke

Technical Data Sheet

FREODUR

UV-Non-slip Coating
ES1927MRA999

- UV-curable coating
- Anti-slip property according to DIN 51130 R11 and DIN 51097 B
- Roller coating
- Very good adhesion on UV printing ink and Coilcoating
- High scratch resistance

Technical / Physical Data	**Resin/ binder**	UV curable urethanacrylat		
	Colour	colourless		
	Gloss value DIN 67530 and DIN EN ISO 2813	mat	20-40	geometry 85°
	Original viscosity	2000 – 4000 mPas/ 60 rpm		
	Density calculated	1,1 g / ml	+ / - 0,1	
	Solid content calculated	99 %	+ / - 2	
	Solid content in volume calculated	970 ml / kg	+ / - 20	
	Consumption calculated in original viscosity, without application loss	30 to 50 g / m² dry film thickness 50 µm see „Special remarks“		

Storability

Approx. 6 month in original packings at an ambient temperature of 5 to 25 °C, in case the original packings are tightly closed. Opened packing must be used very shortly. The minimum storage stability of each batch is mentioned on the product label. A storage time beyond the mentioned date doesn´t necessarily mean that the material is unusable. In this case a check of the qualities which are important for the respective application is necessary.
The coating has to be protected from light.

DIN EN ISO 9001
ISO/TS 16949
EMAS

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Processing and application

Application
Components are to be mixed homogeneously (e.g. with high-speed mixer).

roller-coating:	in original viscosity
roller-type:	grooved roller 80
application-roller:	12m / min.
doctor roll:	4m / min. invers
Offset:	-0,9mm +/- 0,3
gap:	999,8 +/- 0,2
material usage:	40-45µm

Substrates
aluminium, coil coated, foils or rather UV-digital print coated

Pretreatment
The substrate must be free of materials which prevent adhesion, e.g. oil, grease, dust and surfactant. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.

Proposal for a coating system

subtrate:	aluminium, printed	
primer:	FREODUR-UV-Non-slip-Coating	ES1927MRA999

Application temperature
above 10 °C

Drying UV-curing

max.dry film thickness 40 µm
radiation lamp: Hg-lamp
power: 120 W/cm
speed of belt: 8 m/min – 12m/min

Cleaning of working equipment
EFD-Thinner 400064

Advise for safety protection and protection of health
The usual precautionery measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailled information about dangerous goods, sayfety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

Special remarks

Test condition
All information is based on a standard climate 20/65 DIN 50014.

For the calculation of the practical consumption loss additions have to be considered. Indications to this are the practical experience and advices given in DIN 53220.

All information are based on our product knowledge and experience. To the application we have no direct influence. For further information please don’t hesitate to contact us.

The information mentioned herein are reference values and are not given as specification.