Technical Data Sheet

EFDEDUR

System-Fine-Structure
GS9107

- Two component structure paint with solvent
- On powder-coating co-ordinated laquer system
- Standard-System: GS1007 EFDEDUR-Pearl-Structure layuer
- In- and outdoor usage
- Silicone-free
- Self-creating pearl structure in one layer

Technical / physical data	**Resin/ binder**	polyacrylic to be hardened with isocyanate
	Colour	between powder coating and RAL-colour or costumer sample
	Gloss value visual	after powder sample
	Original viscosity without hardener	200 - 1400 mPa.s / Spindel 3
	Mixing ratio by weight	5 : 1
	Hardener-Typ base	EFDEDUR-Hardener HU0001 polyisocyanate
	Potlife after hardener addition	approx. 6 h / 20 °C
	Thinner	EFD-Thinner 400320 or EFD-Universal-Thinner 400500
	Density after hardener addition, calculated	1,3 g / ml + / - 0,1
	Solid content after hardener addition, calculated	68 % + / - 2
	Solid content in volume after hardener addition, calculated	365 ml / kg + / - 10
	Material usage after hardener addition calculated	130 to 150 g / m² dry film thickness 40 to 60 µm
Storability	Approx. 24 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.	

DIN EN ISO 9001
ISO/TS 16949
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Processing and application

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

spraying-high-pressure: after hardener addition
nozzle: 1,2 to 1,8 mm spraying pressure: 3 to 5 bar

Substrates
steel, non ferrous metal, different plastics

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

substrate:	steel	
primer:	FREIOPOX-Primer	ER1912
top coat:	EFDEDUR- Fine-Structure	GS9107

Application temperature
above 10 °C

Drying	air drying at 20°C	
dust dry:	after 30 min.	(degree of drying 1/ DIN EN ISO 9117-5)
dry to touch:	after 1,5 h	(degree of drying 4/ DIN EN ISO 9117-5)
complete dry:	after 5 days	(swinging beam hardness/ DIN EN ISO 1522)
oven drying:	to 100°C possible	(object temperature)

Cleaning of working equipment
EFD-Thinner 400500

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
The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on GS9107MA1782, püure white and hardening with EFDEDUR-Hardener HU0001.

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.

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