

# EFDEDUR

## Structure Paint GS1928

- Two component structure paint with solvent
- Silicone-free
- Indoor usage
- For structure effects in a processing step orange peeling and two processing steps splatter effect
- Good mechanical and chemical resistance for special applications

<b>Technical / physical data</b>	<b>Resin/ binder</b>	acryl resin to be hardened with isocyanate
	<b>Colour</b>	acc. to RAL 840 HR other colour shades on request
	<b>Gloss value</b> DIN 67530 and DIN EN ISO 2813	satin mat 60 to 90 geometry 60° (smooth, without effect)
	<b>Original viscosity</b>	1700 to 3000 mPa.s / Spindel 4
	<b>Mixing ratio</b> by weight	5 : 1 HU0040 / HU0021 / HU0001 10 : 1 HU0010
	<b>Hardener-Typ</b>  base	Standard-Hardener = EFDEDUR-Hardener HU0040 Alternative-Hardener = EFDEDUR-Hardener HU0032 EFDEDUR-Hardener HU0001 EFDEDUR-Hardener HU0010 polyisocyanate see „Special remarks“
	<b>Potlife</b> after hardener addition	approx. 6 h / 20 °C
	<b>Thinner</b>	EFD-Thinner 400320 or EFD-Thinner 400500
	<b>Density</b> after hardener addition, calculated	1,2 g / ml + / - 0,1
	<b>Solid content</b> after hardener addition, calculated	65 % + / - 2
	<b>Solid content in volume</b> after hardener addition, calculated	440 ml / kg + / - 10 after hardener addition, calculated
	<b>Material usage</b> after hardener addition calculated	90 to 140 g / m <sup>2</sup> dry film thickness 40 to 60 µm

# EFDEDUR

Structure Paint  
GS1928

# FreiLacke



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## 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.

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## Processing and application

### Application

Components are to be mixed homogeneously (e.g. with high-speed mixer).  
Suited application methods are: high pressure, low pressure and spraying-airless.

Following the addition of the curing agent, set the processing viscosity in accordance with the respective application process. Depending on the desired texture, the application takes place in one (self-forming texture) or in two operations (sprinkle effect):

- 1) smooth pre-spraying  
following the drying of the coating surface (approx. 30 min. / 20 °C)
- 2) sprinkle the desired texture using reduced spray pressure

By changing the spray pressure, nozzle diameter and coating viscosity, different surface structures can be achieved. Too high material pressure can for the degradation of the structural image lead (flatten structure).

spraying-airless: in original viscosity after hardener addition  
nozzle: 0,33 to 0,38 mm spraying pressure: 100 to 120 bar  
spraying-highpressure: in original viscosity after hardener addition  
nozzle: 1,8 to 2,0 mm spraying pressure: 4 to 5 bar  
electrostatic-spraying: possible  
by roller/ brush: in original viscosity after hardener addition

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### Substrates

steel: single layer coat  
non ferrous metal: lock at Special remarks  
plastics, wood: se only with primer coat

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### 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.

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### Proposal for a coating system

substrate: non ferrous metal, e.g. Aluminium  
primer: FREIOPOX-Primer ER1912  
top coat: EFDEDUR- Structure Paint GS1928

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### Application temperature

above 10 °C

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### Drying

air drying at 20°C

dust dry: after 30 min. (degree of drying 1/ DIN EN ISO 9117-5)  
dry to touch: after 8 h (degree of drying 4/ DIN EN ISO 9117-5)  
complete dry: after 20 days (swinging beam hardness/ DIN EN ISO 1522)  
oven drying: to 100°C possible (object temperature)

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### Cleaning of working equipment

EFD-Thinner 400500



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**Advise for safety protection and protection of health**

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

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**Special remarks****Information about Hardener and Thinner:**

The hardener and the thinner mentioned on page 1 are stated as standard components for this paint system. The standard hardener is also written in the order documents as well as on the label. Furthermore there are additional hardeners and thinners, which can be used as alternative in case the standard components doesn't meet the requirements. These products are tailor-made e.g. faster or slower hardening.

Hardener are taking influence on the gloss (see page 1).

Standard-Hardener HU0040: good elasticity  
Alternative-Hardener HU0032: indoor usage, good mechanical and chemical stability,  
fast drying

Alternative-Hardener HU0001: for indoor and outdoor usage, good UV-resistance  
Alternative-Hardener HU0010: Coarse structure for indoor and outdoor usage, with good UV-  
resistance and good adhesion on ABS

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**Test condition**

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on GS1928HRA910, pure white RAL 9010 and hardening with HU0040.

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.