

# EFDEDUR

## System-Structurecoat GS9161

- Two component structure paint with solvent
- On powder coating co-ordinated system
- Standard-System: GS1061 EFDEDUR-Structure Paint
- Silicone-free
- Fast drying
- Indoor usage
- For structure effects in a processing step orange peeling and two processing steps splatter effect
- Adhesion on not iron metal

<b>Technical / physical data</b>	<b>Resin/ binder</b>	acryl resin to be hardened with isocyanate
	<b>Colour</b>	between powder coating and RAL-Colour, RAL 840 HR
	<b>Gloss value</b>	after powder sample
	<b>Original viscosity</b> without hardener	4000 to 5000 mPa.s / Spindel 1
	<b>Mixing ratio</b> by weight	6 : 1
	<b>Hardener-Typ</b> base	EFDEDUR-Hardener HU0001 polyisocyanate see „Special remarks“
	<b>Potlife</b> after hardener addition	approx. 6 h / 20 °C
	<b>Thinner</b>	EFD-Thinner 400320 EFD-Thinner 400500
	<b>Density</b> after hardener addition, calculated	1,3 g / ml + / - 0,1
	<b>Solid content</b> after hardener addition, calculated	68,8 % + / - 2
	<b>Solid content in volume</b> after hardener addition, calculated	380 ml / kg + / - 10
	<b>Material usage</b> calculated after hardener addition in original viscosity, without application loss	170 to 200 g / m <sup>2</sup> dry film thickness 60 to 80 µm

<b>Storability</b>	Approx. 18 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 airless spraying

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.

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: primer necessary

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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: FREIPOX-Primer ER1912  
top coat: EFDEDUR-System-Structurecoat GS9161

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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 53150)  
dry to touch: after 5 h (degree of drying 4/ DIN 53150)  
complete dry: after 8 days (swinging beam hardness/ 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).**

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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 GS9161HD2015, calcit white, satin glossy adjustment and hardening with 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.