

# EFDEDUR

## System-Structurecoat FS9115

- Two component structured paint with solvent
- On powder coating co-ordinated system
- With self forming effect
- Silicone oil contains
- Fast drying
- For indoor usage
- For structure effects in a processing step (orange peeling)
- Processing after hardener addition without thinner addition

<b>Technical / Physical Data</b>	<b>Resin/ binder</b>	alkyd resin, silicone oil contains
	<b>Colour</b>	between powder coating and RAL-Colour or Customers sample and/or customer specification
	<b>Gloss value</b> visuell	satin glossy
	<b>Original viscosity</b>	3000 to 4000 mPa.s / Spindel 1
	<b>Mixing ratio</b> by weight	6 : 1
	<b>Mixing ratio</b> by volume	4,6 : 1
	<b>Hardener</b> Base	EFDEDUR-Hardener HU0180 polyisocyanate see „Special remarks“
	<b>Spec. resistance</b> after hardener addition „Ransburg“ – testing tool	500 to 1000 k Ohm
	<b>Potlife</b>	approx. 4 h / 20 °C
	<b>Thinner</b>	EFD-Thinner 400320 or EFD-Thinner 400500
	<b>Density</b> after hardener addition, calculated	1,30 g / ml + / - 0,1
	<b>Solid content</b> after hardener addition, calculated	71 % + / - 1
	<b>Solid content in volume</b> after hardener addition, calculated	440 ml / kg + / - 5
	<b>Material usage</b> calculated after hardener addition in original viscosity, without application loss	110 to 120 g / m <sup>2</sup> dry film thickness 50 µm



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<b>Consumption</b>	8,5 to 9,0 m <sup>2</sup> / kg
calculated after hardener addition	dry film thickness 50 µm
in original viscosity, without application loss	

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**Storability**      Approx. 12 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.

**Processing and application**

**Application**

Components are to be mixed homogeneously (e.g. with high-speed mixer). As application possibilities that is suitable high pressure-, low pressure- as well as the airless-spraying.

The application has to done with 1 to 2 cross coats (self-creating structure/orange peel structure) recommendet dry film thickness: 50 to 70 microns The surface structures of the coating can be altered by varying of spraying pressure, size of spraying nozzle, as well as viscosität of the coating material

airless-spraying:	in original viscosity after hardener addition nozzle size: 0,33 mm (0,013 inch) pressure of material: 100 to 120 bar
pneumatic-spraying:	in original viscosity after hardener addition nozzle size: 0,33 mm / 50° geometry (1350) pressure of material: 100 to 120 bar spraying (atomizer) pressure: 2 to 3 bar
electrostatic-spraying:	possible
by roller/brush	in original viscosity after hardener addition

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**Substrates**

steel

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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: steel  
top coat: EFDEDUR-System-Structurecoat FS9115

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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, sayfety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

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System-Structurecoat  
FS9115

**FreiLacke**



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## Special remarks

### Information about Hardener and Thinner:

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 FS9115H2802, HOMAG 2000 and hardening with EFDEDUR-Hardener HU0180

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.