

EFDEDUR

Structure Paint GS1051H

- Two component structure paint with solvent
- Silicone-free
- Fast drying
- In- and outdoor usage
- For structure effects in a processing step orange peeling and two processing steps sprinkle effect

Technical / physical data	Resin/ binder	acryl resin
	Colour	acc. to RAL 840 HR other colour shades on request
	Gloss value DIN 67530	satin mat 15 to 35 geometry 60° (smooth, without effect)
	Original viscosity	the delivery viscosity is structure dependent 3000 to 8000 mPa.s / Sp. 6
	Mixing ratio by weight	10 : 1 HU0010
	Mixing ratio by volume	8 : 1 HU0010
	Hardener-Typ base	EFDEDUR-Hardener HU0010 or polyisocyanate see „Special remarks“
	Potlife after hardener addition	approx. 6 h / 20 °C
	Thinner	EFD-Thinner 400320 or EFD-Universal-Thinner 400500
	Density after hardener addition, calculated	1,34 g / ml + / - 0,1
	Solid content after hardener addition, calculated	69 % + / - 3
	Solid content in volume after hardener addition, calculated	389 ml / kg + / - 20
	Material usage after hardener addition calculated	150 to 170 g / m ² dry film thickness 60 µm
	Spreading rate calculated after hardener addition in original viscosity, without application loss	6 - 7 m ² / kg dry film thickness 60 µm see „Special remarks“

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.



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.

electrostatic-spraying: possible
by roller/ brush: in original viscosity after hardener addition

Substrates

steel: single layer coat
plastics and non ferrous metal: we recommend performing adhesion tests

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/ outdoor usage

substrate: steel
primer: FREIOPOX-Primer ER1912
top coat: EFDEDUR- Structure Paint GS1051H

Proposal for a coating system/ indoor usage

substrate: steel
top coat: EFDEDUR-Structure Paint GS1051H

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 5 h (degree of drying 4/ DIN EN ISO 9117-5)
complete dry: after 7 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 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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FreiLacke



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 GS1051HRA910 hardening with HU0010.

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.