



# EFDEDUR

## Hydro-Structured paint WU1008

- Water dilutable 2K-structured paint-system
- Silicone-free
- For structure effects in one processing steps (orange peeling)

<b>Technical / physical data</b>	<b>Resin/ binder</b>	acrylat-dispersion
<b>Gloss value</b> DIN 67 530 and DIN EN ISO 2813	WU1008H = WU1008M = WU1008Z =	satin glossy 13 to 33 geometry 60° mat 30 to 50 geometry 85° satin glossy 50 to 70 geometry 60°
		The gloss degree is strongly structure dependent. The indicated value refers to a smooth, weakly structured surface.
<b>Structure</b>		after costumer sample
<b>Original viscosity</b> Haake Viscotester VT02		30 to 50 dPa.s/ Spindel 1
<b>Mixing ratio</b> by weight	WU1008H = WU1008M = WU1008Z =	6 : 1 6 : 1 5 : 1
<b>Mixing ratio</b> by volume	WU1008H = WU1008M = WU1008Z =	4,2 - 4,7 : 1 4,3 - 4,6 : 1 4,0 : 1
<b>Hardener</b>  base		EFDEDUR-Hardener for water laquer HU0208 aliphatic polyisocyanate
<b>Potlife</b>		max. 5 h / 20 °C
<b>Thinner</b>		demin. water or rinsing water < 30 µS
<b>Density</b> after hardener addition calculated		1,44 g / ml +/- 0,1
<b>Solid content</b> after hardener addition calculated		65% +/- 3
<b>Solid content in volume</b> after hardener addition calculated		350 to 380 ml / kg
<b>Material usage</b> after hardener addition calculated, in original viscosity, without application loss		220 to 230 g / m <sup>2</sup> dry film thickness 80 µm see „Special remarks“

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**Storability**

Approx. 9 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. Protect against frost. 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

After hardener addition adjust the viscosity acc. to the selected application procedure. The application has to be done in two spraying passes:

spraying-highpressure: e.g. SATA jet®  
nozzle: 2,5 to 3,0 mm  
Atomizer pressure: 2 to 3 bar  
cross-layer: 1 to 1,5

spraying-airless: e.g. "WAGNER" Aircoat®  
Nozzle identification: 15/40 (0,38mm/40° spraying angle)  
spraying pressure: 80 to 120 bar  
Atomizer pressure: 2 to 3 bar  
cross-layer: 1 to 1,5

Different effects can be achieved by modifying of spraying pressure, viscosities, guns and process, as well as by using different nozzle-sizes. Nozzle- and plant wear are to be considered.

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

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**Substrates**

Stahl, Non-ferrous metals: one layer

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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 mechanical (e.g. sanding) pretreatment.

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**Application temperature**

above 10 °C

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**Drying**

air drying at 20°C/ circulating air

dust dry:	after 15 min.	(degree of drying 1	/ DIN 53150)
dry to touch:	after 4 h	(degree of drying 4	/ DIN 53150)
complete dry:	after 8 days	(swinging beam hardness	/ ISO 1522)

oven drying: to 80°C possible (object temperature)

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**Repair coating**

After sanding with the same system.

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**Cleaning of working equipment**

immediately after use: water; totally dried material on the surface of working tools: only mechanical removal

For cleaning of the feeding lines we recommend to use EFD-Cleaner 400027. This material is gel-like and has a longer influence as cleaning effect.

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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**

Dry film thickness may not exceed 120 µm - danger of reaction blisters

Ventilating time from 20 min. to 2 h.  
Depending upon existing air movement and air humidity.

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**Stability**

Against Hydraulic oil, Shell multi-grade oil, Rapeseed oil, Rhondocor soluble oil 10 %, Scydrol flight hydraulic oil, xylene, isopropanol, Hydrochloric acid 10 %, sodium hydroxide solution 10 %, over 1 week/20° examined.

No restriction of the surface properties, except easy softening with xylene and isopropanol.

With 100 to 120 µm surface disturbances due to lacquer/hardener reactions.

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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 WU1008HRA903 signal white RAL 9003 and hardening with Hardener HU0208.

All information is based on a standard climate 20/65 DIN

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.