

# EFDEDUR

## Hydro-Clearcoat WU1451GRA999

- Water dilutable 2K-PUR-Clearcoat
- Very good light fastness and weather resistance
- For high-quality, high gloss industry-coatings and plastic coatings

<b>Technical / physical data</b>	<b>Resin/ binder</b>	hydroxy functional acrylate resin
	<b>Colour</b>	transparent
	<b>Gloss value</b> DIN 67530 and DIN EN ISO 2813	glossy > 80 geometry 20°
	<b>Original viscosity</b> without hardener DIN 53211*	38 to 42 sek. / 4 mm cup
	<b>Mixing ratio</b> (by weight)	5 : 1
	<b>Hardener</b>  base	EFDEDUR-Hardener for Hydro coat HU0050 EFDEDUR-Hardener for Hydro coat HU0150 polyisocyanate
	<b>Potlife</b>	max. 4 h / 20 °C
	<b>Thinner</b>	tapwater degree of hardness < 15° "deutsche Härte" or demineralised water
	<b>pH-Wert</b>	8,0 +/- 0,5
	<b>Density</b> after hardener addition calculated	1,04 g / ml +/- 0,05
	<b>Solid content</b> after hardener addition calculated	35 % +/- 1
	<b>Solid content in volume</b> after hardener addition calculated	310 ml / kg +/- 10
	<b>Material usage</b> after hardener addition calculated, in original viscosity, without application loss	90 to 100 g / m <sup>2</sup> dry film thickness 30 µm see „Special remarks“

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FreiLacke

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## Storability

Approx. 9 month in original packings at an ambient temperature of 15 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).

Spritzen-2K-Airmix: after hardener addition and viscosity adjustment to 24 to 27 sek.  
nozzle: 0,23 mm Material pressure: 80 bar  
spraying (atomizer) pressure: 4 bar  
spraying-high-pressure: after hardener addition and viscosity adjustment to 20 bis 25 sek.  
nozzle: 1,5 mm spraying pressure: 2,5 bar  
by roller/ by brush: in original viscosity after hardener addition

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### Substrates

Steel

Plastics - single layer coat: ABS, PVC, PUR-Elastomes

Plastics - multiple layer coat: PS, PP (Priming necessarily)

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### Pretreatment

The substrate must be free of materials which prevent adhesion, e.g. oil, grease, dust and surfactant.

With steel: According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.

With plastics: if necessary clean before with EFD-Thinner 400428

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### Proposal for painting on steel – multiple layer

substrate:	steel, blasted	
primer:	FREOPOX-Hydro-primer	WE1986
intermediate layer:	EFDEDUR-Hydro-Metal Effectcoat	WU1451HRA906
top coat:	EFDEDUR-Hydro-Clearcoat	WU1451GRA999

It is possible to paint the clear lacquer one- or multilevel on plastic

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### Application temperature

above 10 °C

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### Drying

air drying at 20°C/ circulating air

dust dry:	after 50 min.	(degree of drying 1	/ DIN 53150)
dry to touch:	after 7 h	(degree of drying 4	/ DIN 53150)
complete dry:	after 8 days	(swinging beam hardness	/ ISO 1522)

oven drying: to 70°C possible (object temperature)

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### Repair coating

After sanding with the same system.

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### Cleaning of working equipment

Top coat immediately after use: water, lightly dried material on the surface of working tools: organic cleaners, e.g. EFD-Thinner 400424.  
Harder not water-thinnable! Cleaning only with thinner.

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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

The hardener mentioned on page 1 are stated as standard componetes for this paint system.  
The standard hardener is also written in the order documents as well ason the label.

Furthermore there are additional hardeners, 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).

**HU0050:** short "open time", machine under-mixed (high-speed mixer) necessarily

**HU0150:** long „open timet“, machine under-mixed (high-speed mixer) necessarily

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### Stability

very good light fastness and weather resistance

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### Test condition

\*Indication of the delivery viscosity according to DIN 53211:

DIN 53211 was withdrawn in October 1996.

On request the value is available according to DIN EN ISO 2431.

All information is based on a standard climate 20/65 DIN 50014, hardening with Hardener HU0150

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.