

# PRODUCT DATA SHEET

## *Ganzlin GR – HGL 416* *Low temperature - powder*

### **Area of application:**

Epoxy powder coating for special indoor applications that require a low cure temperature or short stoving conditions, a good chemical resistance and corrosion protection. Suitable as a primer in combination with AR-SG, FA-SG or ST-HGL as top coat for outdoor use. Suited for corrosivity classes C5-I and C5-M subject to a corresponding pre-treatment and layer thickness in a double-layer.

### **Characteristics:**

Glossy high reactive epoxy powder coating for manufacturing paint films with good flow, covering characteristics and increased corrosion resistance as well as high elasticity.

### **Colour setting:**

According to the customer's requirements.

### **Pretreatment:**

Depending on the requirements with regards to the final product's adhesion and corrosion resistance and the quality of the surface/substrate, the following options are available:

<u>Steel:</u>	degreasing, blasting, iron or zinc phosphate
<u>Aluminium:</u>	degreasing, blasting, passivating or chromalising according to DIN 50939 and/or suitable chrome-free pre-treatment
<u>Galvanised substrates:</u>	degreasing, blasting, zinc phosphate or chromalising and/or suitable chrome-free pre-treatment

### **Processing:**

Electrostatic coating (EPS) at a processing voltage of 30 to 100 kV, or electro kinetic coating (tribo-charging). The relevant **safety instructions** (BGV D25, VDE and VDM guidelines) and our EU safety data sheet must be observed and followed.

Please note that the minimum layer thickness for a sufficient hiding power is depending on the colour shade. A corresponding layer thickness recommendation specified according to the VdL-RL 10 can be provided upon request.

### **Stoving conditions** according to DIN 55990-4:

15 – 20 min. at 130°C object temperature  
10 – 20 min. at 140°C object temperature

### **Shelf life:**

6 months from delivery subject to dry storage at temperatures not exceeding 25°C and without exposure to radiator heat and sunlight!

## PRODUCT SPECIFICATIONS:

The test results have been measured at a layer thickness of  $70 \pm 10 \mu\text{m}$  on a steel test panel of 0.8 mm covered with a zinc phosphate layer.

<b>Density</b>	DIN EN ISO 2811-1	1,4 – 1,6 g/cm <sup>3</sup> (depending on colour shade)
<b>Gloss</b>	DIN EN ISO 2813 Angle of 60°	90 + 5 / - 10
<b>Cross-cut adhesion test</b>	DIN EN ISO 2409	Gt 0A
<b>Bending test</b>	DIN EN ISO 1519	≤ 5 mm
<b>Erichsen cupping test</b>	DIN EN ISO 1520	> 5 mm
<b>Buchholz hardness</b>	DIN EN ISO 2815	> 70
<b>Impact Test</b>	ASTM D 2794	> 40 inchpound
<b>Salt spray test</b>	DIN EN ISO 9227	No blistering after 500 h and under-corrosion ≤ 1 mm
<b>Condensate constant climate</b>	DIN EN ISO 6270-2	No blistering after 500 h and under-corrosion ≤ 1 mm
<b>Condensate alternating climate</b>	DIN EN ISO 3231 0,2 l SO <sub>2</sub>	No blistering after 20 cycles and under-corrosion ≤ 1 mm

### Packaging:

15 kg polyethylene bag in disposable cardboard box

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