

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.

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

Packaging:

15 kg polyethylene bag in disposable cardboard box

The written information in our product specification sheet is provided according to the best of our knowledge and the current state of scientific and practical knowledge. It does not give rise to any legal contract relationship and no secondary obligation in connection to the purchase agreement. The information contained herein does not exempt the user from his/her obligation to assess the product's suitability for the intended purposes. Our liability is solely subject to our sales and delivery conditions.